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## The Structure of The Passions of the Soul and the Soul-Body Union

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derive joy from all the passions (AT, 11.488; CSM, 1.404, a.212). of the Passions, just as wisdom, according to Descartes, enables us to with this understanding we will be able to derive more joy from a reading toward understanding the unity of The Passions of the Soul. My hope is that as a whole is elusive. My aim in this essay is to make some headway ious issues in Descartes's philosophy, but the principle uniting the work together, and commentators have chosen bits and pieces to address varbegin from the metaphysics and we are then shown just how a physics hand, seems on its face more disjoint. Parts of the work do seem to hang if one wants to take issue with the details. The Passions, on the other follows from it. How the work unfolds is a matter of some beauty, even ilar style, does have a more novelesque quality. It has a plot of sorts: we articles, but this cannot be all. The Principles, though it is written in a simopby is supposed to be read like a novel at first, the Passions is a dry read indeed. Part of the problem lies in the fact that it is written as a series of through their very dense and difficult content, and the Principles of Philos-Meditations have their own distinctive style to help propel us forward he Passions of the Soul is perhaps the most impenetrable of Descartes's works. Whereas the Discourse on the Method and the

I begin by raising a set of questions facing a reader trying to make sense of the structure of the *Passions* as a whole, and then I address these questions by explicating the argument informing the work. Drawing out this argument involves understanding the method of the *Passions*, and so we will need to consider just what Descartes means in claiming that he is treating the passions *en physicien*. Because I am interested in sketching the whole argument, I will not be able to pursue some interesting implications of particular points in the argument. However, there is one issue I will touch on. On the reading I propose here, the *Passions* is Descartes's considered attempt to explicate and defend as coherent his conception of the union of soul and body. Thus, I will conclude by briefly considering what insight into the ontological status of the soul-body union this understanding of the *Passions* as a whole affords us.

# QUESTIONS ABOUT THE STRUCTURE OF THE PASSIONS

The Passions is divided into three parts. Part 1 (aa.1–50) is titled "About the Passions in General, and incidentally about the entire nature of man"; part 2 (aa.51–148) is titled "About the Number and Order of the Passions and the Explanation of the Six Primitives"; and part 3 (aa.149–212) is titled "About the Particular Passions." The first question we can ask is: How do these parts relate to one another? Is what Descartes says about the primitive passions meant to follow from what Descartes says in part 1? Are the particular passions detailed in part 3 meant to follow in some way from the primitive passions? One would like to say that one part folows from the other, but Descartes certainly does not make the connecions between the parts explicit.

And perhaps related to these, insofar as we might want to think that here is one order unifying the whole work, we can ask a set of quesions about the microstructure of the work: What explains the internal tructure of each part? How does Descartes proceed in part 1 from a liscussion of the respective functions of body and soul to a discussion of those states of mind caused by the body? Why are the primitive passions primitive? Why does the discussion of the primitive passions pro-

ceed in the order it does? And equally, is there a reason for the order of presentation and discussion of the particular passions in part 3?

to account for these forays into ethics at structurally key moments. tional moments. Any account of the structure of the work must be able to the work, that he is not writing the Pawion as a moral philosopher a.212). So even though Descartes claims, in the second prefatory letter and evil of this life depends" on them alone (AT, 11.488; CSM, 1.404 that, despite the passions' excesses and other disorders, "all the good bit of moral philosophy there, and at what are, at least formally, transicussion of a "general remedy against the passions" (AT, 11.485; CSM, (AT, 11.326; CSM, 1.327, quoted in the next section), there is quite a a general remedy for all the disorders of the passions" (AT, 11.454) of generosity, that passion which is "the key to all the other virtues, and sions they concern. In the beginning, (aa.152-61), we get a discussion 1.403, a.211) to set up the concluding article in which Descartes claims CSM, 1.388, a.161). And article 211 provides us with an extended disarticles include claims about the praise- or blameworthiness of the pasarticles concerning the regulation of the passions, and indeed many tion of the passions (aa.144-48). And part 3 both begins and ends with desires and the exercise of virtue, again in conjunction with the regulasouls (aa.47-48) and about the possibilities for regulating the passions well. Each of the parts of the work concludes with a foray into ethics. (aa.49-50). Part 2 concludes with a discussion of the regulation of The first part concludes with some observations about strong and weak macro- and microstructural concerns, which demands explanation as There is another feature of the Passions, falling between these

### THE BEGINNINGS OF SOME ANSWERS: THE METHOD OF THE *PASSIONS*

To begin to address these questions, it makes sense to consider Descartes's claim that his "intention was to explain the passions only as a natural philosopher [en physicien], and not as a rhetorician or even as a moral philosopher [en philosophe moral]" (ibid.). His self-described aim is thus not to instill certain passions in us, as a political speechwriter

might. Nor is it even to argue that we should cultivate in ourselves certain passions rather than others—to argue that some passions are virtuous while others are vicious—as a moralist would. Rather, he wants to explain the passions as would a physicist.

It is often thought that this remark reveals Descartes's intention to detail the physiology of the passions, and so the *Passions*, has often been read as a principally biological work further promulgating the new mechanist physiology.<sup>2</sup> There is some support for this reading, as a good deal of the work is devoted to excruciating physiological detail. Indeed, Elizabeth, upon reading an earlier draft of the work, questions the empirical support for the microphysiological account Descartes provides.<sup>3</sup> But the work is titled "The Passions of the Soul" and its content does reflect its title. Descartes spends more time detailing the content of those thoughts which are passions than he does the physiology proper to them.

when I doubt everything I cannot doubt that I exist while I am about "deducing from these principles the knowledge of things which and which have various shapes and move in various ways" (AT, 9b.10 that "there are bodies which are extended in length, breadth and depth, "author of everything that is in the world" and is not a deceiver, and doubting. From that follows the further principles that god exists as the neatly in that preface, the first principle of all is the cogito - that even depend on them" (AT, 9b.2; CSM, 1.179-80).5 And, as he lays it out edition of the Principles, to achieve wisdom, or perfect knowledge, "we causes or principles. As Descartes writes in the preface to the French observe follow from their causes, and ultimately from a set of first rather than others from among the countless effects which we take to can do is help "to direct our mind to a consideration of some effects inferring back to the causes from the observed effects. All observation must start with the search for first causes or principles" and then set Knowledge in physics is achieved demonstrating how the effects we be producible from the selfsame causes" (AT, 8a.82; CSM, 1.249). is metaphysics.<sup>4</sup> We do not arrive at scientific knowledge simply by the method Descartes follows. For Descartes, the foundation of physics physical world, and of the workings of the human body in particular, is It seems that just as important as the observations he makes of the

CSM, 1.184), and from this set of principles we can, in his view, arrive at other principles and ultimately all we are capable of knowing.

The order of presentation of the *Principles*, Descartes's physics, clearly demonstrates this method at work. Part 1, as well as the first four articles of part 2, is devoted just to establishing the first principles that Descartes has outlined in the preface, and from there he goes on, in the rest of part 2, to arrive at what he takes to be further basic truths about the nature of extension and the laws of motion. Parts 3 and 4 are then devoted to working out, from these more basic principles of bodies, the details of the natural phenomena experience has drawn our attention to. Thus, the physics that Descartes presents in the *Principles* is distinctive, at least in part, in that it purports to show how the natural phenomena we observe follow from nothing but the nature of extension and the laws of motion, which themselves follow only from the nature of god. In this way, Descartes offers an explanation of physical phenomena from first principles.

way in which bodily motions bring about those mental states particularly well in explicating the mental aspect of sensations and the might inform that body. It does not seem that he adheres to that method by appealing to bodily motions alone, and not by appeal to a soul which physical world to include the human body, whose workings he explains the method of the physicist here, it is in extending his analysis of the sions about sensation follow from his principles.7 If he is adhering to conjoined with the mind" (AT, 8a.41; CSM, 1.224) in part 2, in his treatment of sensations in part 4 he does little to show how his conclunature of mind in part 1 and asserted that the "human body is closely rather a union of mind and body. 6 While certainly he has considered the to that of the human being which is not, for him, simply physical but doing so, he jumps very quickly from discussion of the physical world in virtue of its presence in the brain" (AT, 8a.319; CSM, 1.283). In about in virtue of the soul's presence in the individual limbs, but simply of what happens to the individual limbs of the body does not come evidence for his claim that "the soul's sensory awareness, via the nerves, Toward the end of part 4 of the Principles, Descartes outlines the

The order of presentation of the Paudian suggests that in this work

of the latter-the passions properly speaking-which will concern caused by the body. It is the latter, and in particular a specific category our representation of volitions; and there are those thoughts which are which have the soul as cause—our imaginations of fictional entities and the soul, and so depend causally only on it), and those perceptions volitions (though some may terminate in our body, they are actions of of sorts: there are some thoughts which depend only on our soul, our that is, our thoughts. And here Descartes provides us with a taxonomy derivations. Articles 17 through 29 concern the functions of the soul, of the body are explained solely by reference to the composition of the functions of the body, ranging from the maintaining of the heat in the lating this distinction. Articles 7 to 16 detail what Descartes calls the 11.328; CSM, 1.328, a.2). The first half of part 1 is devoted to articutitle of article 2 tells us: "in order to understand the passions of the soul relies on them—that of the distinction between mind and body. As the work, the Passians does begin by laying out a basic principle which cogito and the nature and existence of god-at the beginning of the Descartes in this work. machine of our body'. The soul and its functions do not figure in its the motions of the animal spirits through the blood. All these workings heart which is the principle of life, to the movement of the muscles, to we need to distinguish its functions from those of the body" (AT, Descartes is going to fulfill the promise of the end of the Principles. While Descartes does not rehearse the first two of his principles—the

It thus seems that Descartes begins the *Passions* by laying out familiar first principles, that he is employing the method of the physicist, that he is, as he says, treating the passions *en physicien*. If he is to continue to follow this method in the rest of the work, then he should go on to explain the phenomena of the passions by the principles he has taken some pain to lay out in part 1. And indeed, part 2 should follow part 1, and part 3 should follow part 2. Equally, it would seem that the internal structures of each of those parts should proceed in the same fashion, following along the lines determined by those principles. It is still far from clear just how the parts of the work follow one another, but we at least have a path through which to pursue their relation to one another.

It might seem odd, however, to claim that an ethics figures in a derivation from basic principles concerning the nature of mind and that of body. Nevertheless, Descartes repeatedly maintains that the metaphysics and physics which form the basis of his philosophy should, if followed through, lead to a perfect morality. Most famously, in the preface to the French edition of the *Principles*, he compares philosophy to a tree:

The whole of philosophy is like a tree. The roots are metaphysics, the trunk is physics, and the branches emerging from the trunk are the other sciences, which may be reduced to three principal ones, namely medicine, mechanics and morals. By 'morals' I understand the highest and most perfect moral system, which presupposes a complete knowledge of the other sciences and is the ultimate level of wisdom (AT, 9b.14; CSM, 1.186).

And Descartes also indicates elsewhere that he takes what he has to say about ethics to follow from his physics, (and so presumably from his metaphysics, since the physics follows from that).<sup>8</sup> And so it would seem that we have reason beyond the mere layout of the work to think the articles which deal with moral philosophy do figure in the development of *The Passiums of the Soul*. Somehow they are supposed to follow from what has come before them, and presumably, where appropriate, serve as the basis for what comes after them. And again we are left with the question: How exactly is that supposed to work? How do the views on the regulation of the passions and the account of virtue related to it follow from the basic principles articulated in part 1? To address these questions, as well as those about the relation between the parts of the work, we need to return to part 1 of the *Passions* and the principles articulated therein.

## BACK TO THE BASICS: THE FOUNDATIONAL PRINCIPLES IN PART ONE

As just noted, Descartes's discussion in the *Passions* essentially starts where those of the *Meditations* and the *Principles* leave off. The functions

proper to mind and body are distinct from one another. The function of mind is thought, whereas that of body is the motion of the parts of extended substance in accordance with their configuration relative to one another. Thought is not extended, and neither is matter in motion thinking. That established, Descartes turns his attention to those thoughts the soul has in virtue of its relation to the body: its passions. The passions in the general sense include sensations of external objects, internal sensations, such as hunger and thirst, and the topic of the work, the passions in the special sense, which he defines as "perceptions, sensations or emotions of the soul which we refer [qu'on raporte] particuliarly to it, and which are caused, maintained and strengthened by some movement of the spirits" (AT, 11.349; CSM, 1.339).

Proceeding en physicien, Descartes must first explain how the soul has these thoughts from first principles. The account he offers here comes in two parts. First, Descartes specifies that soul and body are joined in a particular way. So, in articles 30–33 he writes:

But in order to understand all these things more perfectly, we need to recognize that the soul is really joined to the whole body, and that we cannot properly say that it exists in any one part of the body to the exclusion of the others. . . . (AT, 9.351; CSM, 1.339, a.30)

We need to recognize also that although the soul is joined to the whole body, nevertheless there is a certain part of the body where it exercises its functions more particularly than in all the others. (AT, 11.351–52; CSM, 1.340, a.31)<sup>10</sup>

This part is, infamously, the pineal gland. In the next cluster of articles (aa.34–43), Descartes goes on to describe in more detail what sort of interaction this joining affords. The movement of the animal spirits causes a reorientation of the pineal gland which leads the soul to have the perceptions it does, and, in the case of the passions, the soul's feeling them further disposes it to "want the things for which they prepare the body." (AT, 11.359; CSM, 1.343, a.40). Equally, the soul can effect a reorientation of the gland which in turn has far-reaching effects within the body.<sup>11</sup>

It is worthwhile to note two things here. First, Descartes simply asserts that soul and body are conjoined. For him this is obvious. 12 And second, Descartes is at pains here to maintain the functional integrity

for its consistency with his dualism. 14 body are so joined such that they can affect one another, but here commensurate with the principles of mind and body he has already outand their being able to act on one another in the way they do, is entirely seems that for Descartes, the soul's being joined to the body in this way, Descartes is entitled to claim that the distinct substances of mind and lined. There is, of course, the longstanding question of whether responding to this volition" (AT, 11.360; CSM, 1.343, a.41).13 It thus closely joined moves in the manner required to produce the effect cora.36; AT, 11.358 and CSM 342-43, a.38). On the other hand, he expli-Descartes confidently asserts that they are so joined without concern cates how the soul manifests its power-its volitions-with respect to the body: "the activity of the soul consists entirely in the fact that simply ments without any action of the soul (AT, 11.356-57 and CSM, 1.342, by willing something it brings it about that the little gland to which it is logical effects themselves have causal efficacy, causing bodily movethe ways in which objects affect our physiology and how those physioand independence of the soul and the body. On the one hand, he details

a physiological state causes might vary from individual to individual, within a particular individual, a particular sort of physiological state brings about a particular sort of thought. This regularity is implicit in think that there is a regularity in that relationship. While which thought ship between mental states and bodily states. Descartes, however, does one another, Descartes has not explained any regularity in the relationjust by asserting that soul and body are joined such that they can affect that sort of thought at another moment she moves it in another. That is, thought at one moment she moves her body in one way, and in thinking moment, she feels joy. Equally, we might imagine that upon thinking a moment, she feels fear, and in that same physiological state at another sions accidentally: upon being in a particular physiological state at one of article 43, we might well imagine a human being who felt her pasthe determinate way in which they do so. So as things stand at the end that soul and body have to affect one another, he has not accounted for the causal relation between them. 15 While he has explained the capacity in this way (as well as distinct), he has not explained the consistency of Even if we grant Descartes his claim that soul and body are joined

the language of 'natural institution'. So, for instance, "merely by entering into these pores they produce in the gland a particular movement which is ordained by nature to make the soul feel this passion" (AT, 11.357; CSM, 1.342, a.36). And it is made explicit in the discussion of sensation at the end of the Meditation Six:

It is quite clear from all this that, notwithstanding the immense goodness of God, the nature of man as a combination of mind and body is such that it is bound to mislead him from time to time.... This deception of the senses is natural, because a given motion in the brain must always produce the same sensation in the mind; and the origin of the motion in question is much more often going to be something which is hurting the foot, rather than something existing elsewhere. So it is reasonable that this motion should always indicate to the mind a pain in the foot rather than in any other part of the body. Again, dryness of the throat may sometimes arise not, as it normally does, from the fact that a drink is necessary to the health of the body, but from some quite opposite cause, as happens in the case of the man with dropsy. Yet it is much better that it should mislead on this occasion than that it should always mislead when the body is in good health. And the same goes for other cases. (AT, 7.88–89; CSM, 2.61; emphasis mine)

The second part of Descartes's account of how it is possible for the soul to have thoughts in virtue of its relation to the body consists in the explanation of this regularity of the connection between soul and body. <sup>16</sup>

In order to understand the passions as mental states caused by the body in a regular way, for Descartes, we need an explanation beyond the mere joining of soul and body such that they can affect one another. To explain the regularity with which our bodily states engender thoughts (and our thoughts engender bodily movements), Descartes asserts the following, the title to article 44: "That each volition is naturally joined to some movement of the gland, but that by artifice [indulinic] or habituation one can join it to others" (AT, 11.361; CSM, 1.344). 17 Here Descartes subtly moves beyond the account he gave in article 34 and following. Why is it that a sort of movement of the pineal gland causes the particular sort of thought it does, (and vice versa)?

Because each sort of thought is joined either by nature or by artifice or habituation with a particular movement of the gland.

This second explanation is clearly central to Descartes's account of the passions, for he invokes it again and again in the work, almost as a refrain. Descartes repeats it in article 50 to explain both why we are given to certain feelings and our ability to train ourselves to feel otherwise.

It is useful to note here, as already mentioned above [a.41], that although nature seems to have joined every movement of the gland to certain of our thoughts from the beginning of our life, yet we may join them to others through habituation. (AT, 11.368; CSM, 1.348, a.50). 18

And he invokes it again in article 107

I derive an explanation for all this from what I said previously, namely that our soul and our body are so linked that once we have joined some bodily action with a certain thought, the one does not occur afterwards without the other occurring too. (AT, 11.407; CSM, 1.365, a.107).

And also in article 136:

For the rest, so as to put in a few words all the points that might be added regarding the different effects or different causes of the passions, I shall content myself with repeating the principle which underlies everything I have written about them—namely that our soul and body are so linked that once we have joined some bodily action with a certain thought, the one does not occur thereafter without the other occurring too; but we do not always join the same actions to the same thoughts. (AT, 11.428; CSM, 1.375, a.136, emphasis mine)

The centrality of this explanation suggests that the principal concern of the *Passions* is to develop and defend this account of the regularity of causal relation between mind and body. <sup>19</sup> Descartes is simply using the case of the passions in the special sense to do so. Moreover, it should be clear from Descartes's language when he invokes this explanation that he takes it to be of a part with the method of the physicist. Notice that

in article 107 Descartes claims that what has come before—the specification of the physiology proper to each passion—has been deduced from this account of the causal connection between the soul and the body. For the physicist, then, this explanation seems to have the status of a basic principle: that from which other claims follow.<sup>20</sup> And indeed, in article 136 Descartes makes this elevation explicit, for there he actually calls it a principle. So, that thoughts and motions of the pineal gland are associated in a determinate way in virtue of being joined either by nature or by habituation is a basic principle from which Descartes claims an understanding of the passions follows. Let us call it the Principle of Nature and Habituation (PNH).<sup>21</sup>

We clearly need to examine just how Descartes carries out this project. The first step in this examination is arriving at a clearer understanding of PNH itself. Before turning to do this, however, I want to draw attention to some problems on the face of PNH. For one, we want an explication of PNH to avoid these problems. And second, some of Descartes's efforts to avoid these problems, I will claim, are contained within the forays into ethics at the end of each part of the Paviana. Thus, getting clear on these problems can help us to understand the structure of the Paviana.

are to read 'natural joining' here, PNH is puzzling if not perverse. For natural institution, to consist simply in the particular mental and phystion would be empty if not question begging. However, even if we grant mental and physical states, as I am arguing it does, then that explanareading, if PNH is to explain the regularity of the relation between and physiological states are naturally joined. Thus, on this standard one, the first half of the principle asserts that particular mental states relation itself remains unanalyzed and unexplained. If this is how we ical states' standing in the causal relation to one another they do.<sup>22</sup> That have taken the natural joining, or as it is more commonly referred to, tions between mental and physical states are instituted by god. While addition, it is often assumed, again with good reason, that the associathis is so, it would seem to undermine just what it aims to explain. In in that it seems to suggest that we can change these causal relations. If Descartes this point there are still problems. For PNH is also puzzling Many interpreters, for both good textual and philosophical reasons

god could certainly have arranged things otherwise, we cannot hope to understand god's purposes for arranging things the way he did. Thus, claiming that we can change the natural relations between mental and physical states seems odd in another way. For if these natural relations are indeed god-given for reasons unknowable to us, for us to second guess god's reasons for arranging things the way they are seems like a willful deviation from our nature if not outright heretical.<sup>23</sup> Thus, if we do understand 'natural joining' on the standard line it seems quite problematic to maintain that we can change these natural relations between mental or physical states by artifice or habit. So not only do we need to understand Descartes's explanation, and how it accounts for what he claims about the passions, we also should want to do so in such a way as to avoid these problems.

Descartes begins to resolve these apparent problems with PNH in the articles which immediately follow his first statement of that principle in article 44, for he there proceeds to clarify just what he means by "by artifice or habituation one can join it to others." He does so by considering the regulation of the passions, or as he puts it in the title to article 45, "the power of the soul with respect to its passions" (AT, 11.362; CSM, 1.345, a.45). As Descartes sees it, the power the soul has in this regard is just that which it has through artifice and habituation. Descartes's account of the regulation of the passions, and with it his resolution of the apparent problems with PNH will not be complete until the end of the work. Since I am concerned here to lay out the structure of PNH will not be in place until I have laid out all of Descartes' argument.

In articles 45–46, Descartes outlines one way we can regulate our passions: through a kind of technique informed by proper judgement, or what Descartes terms in article 48 the soul's "proper weapons... [or] firm and determinate judgements bearing upon the knowledge of good and evil" (AT, 11.367; CSM, 1.347, a.48).<sup>24</sup> It might seem odd to refer to a matter of proper judgement as a technique, but that it is a kind of technique becomes clear once one considers just in what this method for gaining power over our passions consists. For Descartes, regulating our passions is not simply a matter of correcting our judg-

stand the relations between thoughts and bodily states. It is for this well we can manipulate our physiology, that is by how well we underness of this strategy for regulating our passions also depends on how stay put and face the danger rather than run away.26 But the effectivewe can do is to assert our will so that we refrain from acting in the way strong enough to dampen our passions. Then, says Descartes, the best turn alters our physiological state, and in doing so it quells our passion. safety are, it seems, themselves associated with a particular sort of us, to another thought of our own design. ters. In this way, we move from the thought which comes naturally to thought, we then from that thought direct our thoughts to other mat-Although the physiological state we are in causes us to have one And it is also for this reason that we might think of it as an artifice reason that this way of regulating the passions is a kind of technique. our passions incline us. We still feel fear, say, but we will ourselves to terpart to our thoughts of 'reasons, objects, and precedents' will not be how stirred up we are. Sometimes, the force of the physiological coun-Of course, the effectiveness of thinking of other things will depend on ders a shift in the pineal gland. This shift in the gland's orientation in physiological state, and so thinking those contravening thoughts engenfeel otherwise just by affecting us physiologically. Our thoughts of our need to attend to 'reasons, objects and precedents'25 which lead us to long as we are physiologically affected in that way, we will feel fear. We Fear has a physiological cause which we cannot simply will away; so instead of in danger is on its own not enough to make my fear go away than we naturally do (a.45). So having a thought that I am safe, say, ments about things. We cannot simply will ourselves to feel differently

This redirection of our thoughts can then become a matter of habit, as Descartes notes in article 50. He begins the article by reiterating PNH, this time with a focus on habituation, and then moves on to claim that the devices we employ to control our passions can become habits, so that whenever we feel a passion we very quickly move to having those other thoughts we employ to control it.<sup>27</sup> But in this article Descartes goes on to make a second point:

It is also useful to note that although the movements (both of the

gland and of the spirits and the brain) which represent certain objects to the soul are naturally joined to the movements which produce certain passions in it, yet through habit the former can be separated from the latter and joined to others which are very different. (AT, 11.369; CSM, 1.348, a.50)

and effectively than if we thought of moving them in all the ways to say, and this makes us move our tongue and lips much more readily than simply associating those thoughts with the will to move her mouth ments through which we utter the words needed to convey them, rather fluent speaker will have joined her thoughts directly with the movewords is naturally joined with the will to make those movements, but a of language in article 44. The movements of our mouths in uttering things, but those things will move us differently, make us feel different we are directly affected by things: we will surely still sense the same relation between two different aspects of our physiology, he is better required for uttering the same words" (AT, 11.362; CSM, 1.344, a.44). Thus, "when we speak, we think only of the meaning of what we want this is the proper reading is clear from his discussion of the acquisition passions immediately and not through any cognitive technique. That being confronted with things by in some way changing the way in which read as suggesting that we can also come to feel different passions in While it might seem that Descartes is here talking about changing the

At this point we can begin to see how Descartes might in part resolve at least one of the problems PNH faces. For through the method of artifice we might well change how we are feeling without disrupting the determinate relations between physiological state and thought. Our being in a sort of physiological state still, through the natural relation in which it stands to it, regularly causes a sort of thought, but we need not rest in that thought. We can move on to another thought, and indeed form habits of association between our original thought and that other thought so that we effectively have quite a different thought than that which we naturally have when in a certain sort of physiological state. However, the relation between our original thought and that sort of physiological state remains intact. While the method of regulating our passions through artifice does provide us with a way of undertanding

how Descartes can consistently maintain that thoughts stand in a regular relation to physiological states and that we can change the relation between thought and physiology, two questions still remain. First, even with regards to the method of artifice, there is the question of why we should be entitled to change that which god has naturally given us. And second, the second sort of habituation Descartes outlines, through which we can change even the natural relations between thought and physiological state, faces both problems on the face of PNH. For insofar as we can change the natural mind-body relations, the explanatory point of PNH seems to be undermined, and again we seem to be in danger of violating god-given psychophysical laws.

of the interpretive questions with which we started, that concerning the shown at least that the last articles of part 1 do follow from PNH in that work, all he has written on the passions follows.<sup>29</sup> Thus far, I have introduces a new principle, PNH, from which, he claims later in the other works, those concerning the nature of mind and of body. He also only sets out two first principles with which we are familiar from his some of the potential problems with PNH suggests that the other ethof what it might be to change the 'natural joining' of mental and physof the regulation of the passions, Descartes provides an initial account place of the ethical discussion at the end of part 1. In raising the issue resolve a potential problem with PNH. We also have an answer to one have also shown that, at least in case of artifice, explication helps to regulate how we feel about things through artifice and habituation. I they explicate the second part of that principle-how we are able to ical states by artifice and habituation. That this account helps solve ical discussions might also help in this regard So concludes part 1 of The Passions of the Soul. In it, Descartes not

## HOW WHAT DESCARTES WRITES ABOUT THE PASSIONS FOLLOWS

As we have just seen, after first introducting PNH, Descartes begins to explicate its second part, that by artifice and habituation we can join a thought to a bodily motion other than that to which it is joined by

with the explanatory goals of PNH. can support the potential for change inherent in PNH. The transition cates the first part of PNH, that is, what it is for bodily states and becomes clear how the second part of PNH is completely consistent ther explicates the second part of PNH, and at last through part 3 it between parts 2 and 3 accords with this reading, as there Descartes furthe regularity of the relation between mental and physical states which the unexplained causal connection of the standard interpretation. mental states to be 'naturally joined' in a way that is much richer than through a detailed account of the passions in the specific sense, expli-*Jinu*. On the reading I will propose, the bulk of part 2 of the Passions PNH is precisely what Descartes intends to do in the rest of the Pasif we properly understand PNH. And advancing our understanding of the causal relation between mind and body. We now need to see how Through this account of natural joining we are given an explanation of this explanation is supposed to go. I want to suggest that we can see this nature. I have suggested that PNH serves to explain the regularity of

and if we cannot sufficiently distinguish physiological states it is at least causal connection. For certainly on that interpretation, if we knew the does seem to think that we do have empirically adequate knowledge of not seem to be concerned with empirical adequacy here. For one, he not clear how we might distinguish passions. However, Descartes does just by observing which passion arises from which physiological state, physiological states, we could distinguish the passions from one another be consistent with the reading of 'naturally joined' as an unexplained these physiological states are hard to specify, and so are empirically are insufficient "to distinguish between the various passions" (AT, most proximate causes-particular physiological states-because they principle of taxonomy Descartes sets out in articles 51-52. In article 51 the physiology associated with the passions, as he has no problem specinadequate for distinguishing the passions. This interpretation would than an unexplained causal connection let us begin by considering the ifying the microphysiological causes of the passions in articles 102–106 11.371; CSM, 1.349, a.51). Now, by this he might mean simply that Descartes explains that he will not distinguish the passions by their To see that Descartes means something more by 'naturally joined

and their expressions (aa.112–36). Moreover, he suggests that these physiological states are insufficient for distinguishing the passions because, though they are their proximate cause, they are not their first cause. He writes: "we must investigate their origins and examine their first causes" (AT, 11.371; CSM, 1.349, a.51). Descartes is claiming that though the passions are in one sense caused by the motions of the animals spirits, we can look for (and find) the cause of that determinate relationship between physiology and thought. And once we have that explanation, Descartes is claiming, we will be able to properly distinguish the passions. And with this explanation of the determinate relation between physiology and thought, we gain an enriched account of what it is to be 'naturally joined'.

In the next article (a.52), Descartes proposes to distinguish the passions as follows:

I observe, moreover, that the objects which stimulate the senses do not excite different passions in us because of differences in the objects, but only because of the various ways in which they may harm or benefit us, or in general have importance for us.... That is why an enumeration of the passions requires only an orderly examination of all the various ways having importance for us in which our senses can be stimulated by their objects. (AT, 11.372; CSM, 1.349, a.52)

Thus, while the passions are generally defined as states of mind, which refer to the soul, and are caused by physiological states, they are defined as the particular passions they are by what they represent, the importance of things to us.<sup>31</sup> Certainly, this taxonomical principle helps in identifying and cataloging the passions. In articles 53–68 Descartes goes on to specify the passions just by considering the way things are important to us, what we feel in proportion to a thing's newness to us, its goodness or badness for us, and to the temporal situation of that perceived good or bad.<sup>32</sup> But given article 51, in allowing us to distinguish passions, it should also be the specification of that first cause or principle which can explain the determinate relations between physical and mental states, in the case of the passions at least, and so flesh out what Descartes means by 'naturally joined'. How, though, does it do that? That is, in what way does the passions' representation of the impor-

tance of things to us in any way explain the relations between mental and physical states, let alone the regularity of those relations?

goes into much more detail about these passions' physiology than he did of the expressions of the passions. And so it can certainly seem as tion of the physiology of the passions with a somewhat detailed account to each of the passions. The only difference seems to be that Descartes offers a physiological explanation, i.e., an explanation in terms of the for wonder.<sup>35</sup> Moreover, in articles 112–36, he continues this specificalaying out the associations between mental and physical states proper it, Descartes seems simply to be doing just what he did for wonder, movements of those animal spirits, of those symptoms. On the face of rate, temperature, and digestion; in articles 102-106 Descartes then what we might call the symptoms of each passion-changes in pulse cates the physiology proper to each passion. Articles 97-101 present importance of things (aa.79-95).34 He then, in articles 97-136, expliprimitive passions, detailing the way in which each represents the seems to follow the same line. He begins by defining the remaining five primitive passions—love, hate, desire, joy, and sadness—Descartes supposed to accept that it is so. And for the discussion of the other why that particular physiology is associated with wonder; we are just sidering the ways in which wonder affects us. 33 We get no account of continues in articles 71-72. He then concludes his treatment by conthen goes on to detail the physiological cause of wonder, a discussion he we are surprised by that which seems rare and extraordinary to us and Cause" (AT, 11.380; CSM, 1.353, a.70), Descartes avers that in wonder ceeds as follows: In article 70, titled, "Wonder: Its Definition and thought. So his treatment of the first primitive passion-wonder-protuting the passion and then the physiology associated with that explaining them. For he begins by first setting out the thought consticussion of the primitive passions proceeds in this way. It can seem as if Descartes is simply describing what those associations are, rather than things to us. At first, however, it might not seem that Descartes's dismental states, and this explanation involves precisely the importance of sorts of physiological states come to be joined with particular sorts of primitive passions, for there he offers an explanation of how particular Descartes's answer to this question comes in his treatment of the

though Descartes, after describing a particular association between passion and physiology, simply spends an inordinate amount of time detailing the physiology of the passions. There seems to be no explanation at all of mind-body causal relations.

thoughts come to be associated with certain physiological states. For does not consist merely of a description of an existing association a.107). For, once we have joined thought and physiological state, a inform our future feelings of them (recall AT, 11.407; CSM, 1.365-66, one, he invokes PNH in claiming that these first feelings of our passions come to feel our first passions serves to explain how it is that certain natural history of the primitive passions, and this story about how we between passion and physiology. In articles 107-11 Descartes offers a or habit; Descartes conveniently neglects this aspect of PNH here) be natural history, Descartes also provides an account of our first joining associated with a physiological state of that type. However, with this thought of that type will thereafter (without the intervention of artifice physiological state we are in). And the reason involves the importance given for no discernable reason. Rather, he takes it that there is a reason ical state and passion are neither mere accident, nor are they simply godmental and physical states. According to him, the pairings of physiologwas flush with this good blood caused the soul to feel love: ticularly well-suited to maintaining the life of the body. That the body "began to be joined with our body," the heart contained a nutriment parof things to us. In the case of love, Descartes claims that when our sou for our feeling them when we do (that is, when we are in the sort of "some bodily action with some thought," that is, of the natural joining of However, despite initial appearances, Descartes's discussion here

For it seems to me that when our soul began to be joined to our body, its first passions must have arisen on some occasion when the blood, or some other juice entering the heart, was a more suitable fuel than usual for maintaining the heat which is the principle of life. This caused the soul to join itself willingly to that fuel, i.e. to love it. (AT, 11.407; CSM, 1.365–66, a.107)

Descartes continues: We first felt hate because there was bad blood, insufficient for maintaining life, circulating in the body; we first felt joy

because our blood was so well-nourished that our body had no need to replenish itself; we first felt sadness because our body lacked sustenance; and we first felt desire to receive things suitable to the body. Why, then, according to Descartes, does the soul feel its first passions? It feels them because the body with which it is becoming joined is in a certain physiological state. But this bodily state does not serve merely as an efficient cause for the our passion. For the soul feels the passion it does because the physiological state it is in has value for us—it indicates the well-being of the body, and the soul, simply in virtue of being joined to a body, shares in this well-being. It is through this sharing of value that the soul institutes the association which will then stand between physical and mental states. The relations between particular mental and physical states is thereby explained by their relevance to our good.

Descartes's natural history of the passions thus provides further explication of what it is for a mental and a physical state to be 'naturally joined'. One aspect of their natural joining is the causal relation which stands between the two, but there is more. That causal relation is in place just because our being in that particular physiological state is important to us, that is, related to our good, in the way that it is, and that, moreover, we recognize and institute it as such. It is for this *reason* that the causal relation between physical and mental states has the regularity it does.

ular to the *Passions*. It resonates nicely with Descartes's discussion in Meditation Six of the natural instituted associations between mental states and bodily states. In Meditation Six, once Descartes has established that, although mind and body are really distinct, they are "very closely joined and, as it were, intermingled" in a human being (AT, 7.81; CSM, 2.56), he goes on to explicate the evidence for that union. The first piece of evidence—how nature teaches him that mind and body are united—are just those "sensations of hunger, pain, thirst, and so on" (ibid.), those thoughts which indicate that "my body, or rather my whole self, in so far as I am a combination of mind and body, can be affected by the various beneficial or harmful bodies which surround it" (ibid.). As he continues with his explanation of these "modes of thinking arising from the union" (ibid.), the relation of these thoughts to our benefit and harm becomes even more pronounced. The rest of the discussion aims

to address the problem posed by the 'true errors of nature' whereby we mistake our benefits and harms: it seems that such natural mistakes imply that god is a deceiver. Descartes's answer here runs as follows: not only are the associations between physical and mental states instituted by nature, but those naturally instituted associations are just those which are most conducive to our general well-being:

When the nerves are pulled in the foot, they in turn pull on inner parts of the brain to which they are attached, and produce a certain motion in them; and nature has laid it down that this motion should produce in the mind a sensation of pain, as occurring in the foot. ... And we must suppose the same thing happens with regard to any sensation.

My final observation is that any given movement occurring in the part of the brain that immediately affects the mind produces just one corresponding sensation; and hence the best system that could be devised is that it should produce the one sensation which, of all possible sensations, is most especially and most frequently conducive to the preservation of the healthy man. And experience shows that the sensations which nature has given us are all of this kind. (AT, 7.87; CSM, 2.60)<sup>38</sup>

Again, Descartes, at least implicitly, suggests that we can explain the particular associations between mental and physical states by the way in which they figure in our well-being.<sup>39</sup> And indeed, it is because they are to be explained in that way that we can once again rest assured that god is not a deceiver.<sup>40</sup>

At this point, one might worry about the lack of any comparable explanation in the case of wonder. This lack might be reason to think that our good does not play the explanatory role I am suggesting it does with the other passions. There are, however, ways to account for this lack without undermining the interpretation I am offering here. For one, it is not at all clear that there should be a unique sort of physiological state which represents this newness to us. Rather, it would seem that when we find ourselves affected by something in a new way—say, the animal spirits go to an area of the brain they have not yet passed through—we experience it with wonder. In this way, then, wonder itself is just the feeling we have upon having a new experience, and it makes little sense to say that the physiology of each new experience will

be the same—then it would not be new. In addition, wonder is unique among the passions in that it is not associated with any change in the heart and in the blood, and this uniqueness might allow Descartes to explain it differently, though still with reference to our good. Indeed, wonder is useful, according to Descartes, in disposing us to acquire knowledge, and acquiring knowledge is a distinctively human good.

heretical, it certainly seems perverse. our good only seems to shift the other problem. Instead of willfully and 50. Moreover, explaining those natural relations by appealing to we have seen, but we still face the problem of understanding how through judgement and cognitive assocations can avoid this problem, as establish. Using artifice to correct for misrepresentations of our good means, we willfully go against our nature. And while this might not be between mental and physical states, whether by artifice or some other going against what god has given us, in changing the natural relations diate connections between mind and body as he seems to in articles 44 those relations we undermine what the natural relation is supposed to we understand that to be acheived, it would seem that if we change establish a determinate relation between mind and body, no matter how First, if bodily states and mental states are naturally joined so as to ural relation between mental and physical states, there are problems. to be naturally joined. For even under this richer conception of the natexplains the second part of PNH-that we can change what we feel elucidates how PNH can achieve the role it is marked in part 1 as as they are. That is, he explicates the first part of PNH in a way which to be naturally joined which also serves to explain why they are joined Descartes can consistently claim that we can simply change the immehow this potential for change is consistent with his account of what it is naturally through artifice and habit-in a way which makes clear just playing. I now want to show that in the rest of part 2 Descartes further Descartes offers an account of what it is for mental and physical states I have been arguing that in his discussion of the primitive passions

Indeed, Descartes's discussion in Meditation Six, which we have just looked at, seems to recognize the first point. For there Descartes seems to preclude the possibility that we can in any way change our nature, because our nature is as it is for our good. So while it is in our

case of dropsy, he suggests that this sort of error is the price we must per for having a good nature bestowed on us by a nondeceiving god. Xe even here, Descartes leaves open the possibility of 'emending' our nature. Immediately after he seems to resign himself to those occasional 'true errors' of his nature such as dropsy, Descartes writes: "This consideration is the greatest help to me, not only for noticing all the errors to which my nature is liable, but also for enabling me to correct [emending] or avoid [vitare] them without difficulty" (AT, 7.89; CSM, 2.61). All By 'avoid' here, Descartes must be alluding to something like the method of artifice whereby we rely on our better judgement to move beyond these errors. All However, it also seems that Descartes thinks that we can change or 'emend' aspects of our nature in some other way. It remains for us to understand just how to make sense of this claim.

Our passions mislead us in ways similar to the ways sensations do. They admit of both 'true errors' of nature and the more innocuous distortions of confused perceptions. Often we wonder at things too much, and of the other primitive passions Descartes writes:

There are many things harmful to the body which cause no sadness initially (or which even produce joy), and ... other things are useful to the body, although at first they are disagreeable. (AT, 11.431; CSM, 1.377, a.138)

We can, however, control our dispositions to act on these misrepresentations, <sup>44</sup> as well as correct for them in other ways, through the method of artifice. We "must use experience and reason in order to distinguish good from evil and know their true value, so as not to take the one for the other or rush into anything immoderately" (ibid.). That is, we should attend to those 'reasons, objects, and precedents' which argue against our passionate representations of things. Having done this, we will bring about in ourselves desires to act commensurate with our more considered judgments and so be able to avoid the excesses of the passions. That is, just as with sensations, we are to use our better judgment to regulate our passions.

However, it is still not clear how, in making these judgments which

sectal In order to resolve this problem, Descartes needs to articular to. That is, he needs to articulate the norms through which we regulate our passions. While it would take us too far afield to work through Descartes's response to this challenge fully, I think we can see how the rest of part 2 and the articles on generosity at the beginning of part 3 serve to address it. 46

important to a moralist, are not of much interest to a physicien. way we might correct for the errors and misperceptions of our senses attend to any other passions we might be experiencing at the time and dane reflections on our feelings, while integral to our everyday lives and And we might even agree with Descartes that the details of these munsort through our mixed feelings. All this is very much the same as the representation of the value of things to us by appealing to our past feeland for their occasional gross errors by appealing to our previous expeings of this sort and our past encounters with such things. We can also rience. We can judge whether what we are feeling now is an accurate that this is the nature of the passions, we can correct for their distortion straightforward. For though it may well be the case that our passions seems, is not very interested in this question; he thinks the answer is in our passions, so that we might properly regulate them? Descartes, it not? How can we determine the inaccuracies or distortions of our good lead us astray, their design is to promote our bodily well-being.<sup>47</sup> Given passions are proper measures of our benefit and harm and which are governing the regulation of the passions. First, how do we know which There are two distinct questions we can ask regarding the norms

Insofar as this answer locates the norm relevant to the regulation of the passions within the nature of the passions themselves, it seems that we have an answer to our worry, for even when we regulate particular passions, we are drawing on the good represented through them more generally. However, as we have seen from the natural history, the good naturally intrinsic to the passions involves simply the well-being of our body. We might thus ask the further question: Is our bodily well-being the definitive measure of our good? Descartes's answer here is clear. It is not. He writes at the beginning of article 139:

This would be sufficient if we had in us only a body, or if the body were our better part. But as it is only the lesser part, we should consider the passions chiefly in so far as they belong to the soul. In this regard love and hatred result from knowledge [in commaissance] and precede joy and sadness, except when the latter stands in place of the knowledge of which they are species. (AT, 11.432; CSM, 1.377, 1.139)

Our passions, though they naturally indicate the good of the body, are also thoughts. And as thoughts, they bear on another source of value, that proper to the mind. For instance, while some passions might well promote our bodily well-being, they do not serve us well in perfecting our minds, or acheiving the contentment proper to virtue. Thus, Descartes enjoins us to take care not only to feel things to the degree appropriate to their benefit or harm to us physically, and to act accordingly, but also to promote in ourselves those passions which are good for us as thinking things while curbing those which are bad for us in this way. In particular, he claims we should cultivate in ourselves feelings of love and joy, while curbing feelings of hatred and sadness.

Following from this good proper to the mind is another norm for regulating the passions. In the articles which form the end of part 2 (aa.144–48), Descartes explains that, under this norm, we are to regulate our desires<sup>48</sup> so that they conform as much as possible to what 'depends only on us':

The error we commit most commonly in respect of desires is failure to distinguish adequately the things which depend wholly on us from those which do not depend on us at all. Regarding those which depend only on us—that is, on our free will—our knowledge of their goodness ensures that we cannot desire them with too much ardour, since the pursuit of virtue consists in doing the good things that depend on us, and it is certain that we cannot have too ardent a desire for virtue. (AT, 11.436–37; CSM, 1.379, a.144)

The proper measure for our passions from this perspective is no longer the well-being of our body, but now what depends on us, that is, on our will. We are to distinguish what depends on us from what does not, and

> virtues and a general remedy for every disorder of the passions" (AT, assured of our freedom through it, generosity is "the key to all the other 11.454; CSM, 1.388, a.161).51 have a free will and resolve to use that will well. And insofar as we are erosity. For generosity is what we feel when we understand that we conception of virtue is embodied, for Descartes, in the passion of genwe find the greatest satisfaction, or in Descartes's view, virtue. 50 This decision. As this resolve truly depends only on our will, it is here that to date. 49 As Descartes sees it, we make good judgments on how to act ments about which actions we should take with the knowledge we have judgment. And so this sort of contentment involves our making judgthing that properly depends on our will, for Descartes, is our faculty of for the best by making a reasoned decision and resolving to stick to that should limit our desires to what depends on our will? Surely, the only minus. But what are these limits? What does it mean to say that we www.milling.them. Rather we will be content with having achieved outill our desires, nor will we hate that which impedes us on desires to the former. In this way, we will not be sad when

The task of regulating the passions thus becomes one of integrating the goods of mind and body. The picture Descartes seems to be painting is this: We have certain passions by nature, and by that nature those passions serve our physical well-being. But occasionally those passions are misguided, and through their misguidedness they fail in their purpose. To regulate our passions we need not only to ensure that we get our bodily good right—that we feel things in proportion to how they really are important to us. We also need to regulate them in accordance with our ability to form and pursue ends. So, in regulating our passions, we still want to take care to pursue our good and avoid that which harms us, and to strive to have those goods and evils in proper perspective. While surely we still rely on reason and experience to get thon of our bodily well-being. Our good is that bodily well-being integrated and balanced with what promotes our contentment.

With this more developed account of the regulation of the passions in hand, we can now see how PNH is not as perverse as it initially seems. In virtue of the way we come to have them, the passions origi-

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mind and body are naturally joined so as to effect this representative. We are, however, not simply bodies, nor even subordinated to bodies: we are true unions of mind and body. Insofar as we are more can correct for the misrepresentations and distortions of the passions through rational reflection guided by the norm intrinsic to passions. Moreover, and more centrally, as states of mind, the passions are conducive to our contentment, that is, our good as thinking than And we might think of our good as human beings as an integration as balancing of these two goods. Insofar as we change or regulate those passions we feel naturally in accordance with our good as human beings, we are in no way willfully deviating from our nature. On the contrary, in allowing both facets of our nature to figure in our passionate lives, we are realizing our nature more completely.

able to correct for the errors of the natural joining of mental and physend of that part. It serves to explicate the norm through which we are ther just what it is for a mental and a physical state to be naturally primitive passions, he explicates this principle in a way which clarifies mental states stand to one another. In part 2, through laying out the explain the regularity of the causal relationship in which physical and together. change the natural relation of mental and physical states. And second, just how it performs its explanatory role. In doing so, he articulates furlays out a principle, what I am here calling PNH, which is meant to part 2 of the Passions, and of how it relates to part 1. In part 1 Descartes we also need to understand how part 3 fits into the work as a whole. In have an account of how Descartes can claim that we can actually iological states. Two questions remain, however. First, we do not yet joined. Moreover, we have an account of the ethical discussion at the the reading I will propose, the answers to these two questions are tied Now we have a sense of what Descartes is trying to accomplish in

I will first lay out what I take to be going on in part 3. In the initial taxonomy of part 2, Descartes had provided a catalog of the various ways in which objects might be important to us, which he further analyzed into the primitive passions and their species. In article 69 he writes:

in deed, in reviewing all those I have enumerated, we can easily that there are only six of this kind—namely, wonder, love, hatred, or oy and sadness. All of the others are either composed from in of these six or they are species of them. That is why, to ensure the same not confused by the multiplicity of the passions, I wear the six primitive passions separately, and then I shall show the others originate in them. (AT, 11.380; CSM, 1.353, a.69)

percess or compositions of primitives, and for once does precisely what the mas promised. He continues in the order in which he originally catmoged the passions, and in his descriptions of the passions he explicates just which passions they are species or mixtures of. So, esteem and scorn are different kinds of wonder, varying with the greatness (or smallness) of their objects; veneration and disdain are mixtures of wonder and apprehension or boldness, respectively; apprehension and boldness, as well as hope and despair, are combinations of desire mixed with either joy or sadness, respectively; and so on, with the passions which follow analyzed not only in terms of the primitive passions but those which come before.

free will and resolve to use that will well, directly depends on our exererosity, in being what we feel just when we understand that we have a that generosity is caused by a movement of the animal spirits, for genphysiological detail at all. Moreover, it seems quite peculiar to claim passions in part 3, and indeed it is the only place where we do find any a.160).<sup>53</sup> However, this kind of analysis is unique in his accounts of the we have for the cause of our self-esteem)" (AT, 11.451; CSM, 1.387, up of those of wonder, of joy, and of love (self-love as much as the love opinion we have of ourselves . . . [are] produced by a movement made as worthy. So vanity and generosity, which "consist simply in the good erosity, he seems to suggest that there is a combination of physiological of passions are effected. On the one hand, in his discussion of gencise of our mental faculties. motions which runs parallel to the complex representation of ourselves what it is to be a species of a primitive passion or how the combinations What Descartes does not detail in any consistent way, however, is

essarily presupposes doubt" (AT, 11.464; CSM, 1.392, a.177); derision doubting that something we are doing, or have done, is good" and "necour other, less passionate thoughts. So, remorse "results from our tional character, he does want to articulate their logical connection to itself, but rather for a quality we take that thing to have. As for other ness or smallness, for in these cases we are not feeling for the thing and judge we might lose it (a.167). Even in feeling those passions easily fulfilled (a. 165) and jealousy when we esteem something greatly we feel hope when we represent reasons for thinking a desire will be cause not physiological states but judgments we make. So, for instance, of the passions, as Descartes details them here, have as their proximate some small evil in a person whom we consider to deserve it" (AT "is a kind of joy mixed with hatred, which results from our perceiving passions, while Descartes does not explicitly assign them a representathe like —we must have already made a judgment about a thing's greatfeel "sadness mingled with love . . . towards those whom we see suf-CSM, 1.395, a.185).54 fering some evil which we think they do not deserve" (AT, 11.469, 11.464; CSM, 1.393, a.178); pity is the flip side of derision, where we Descartes expressly identifies as species — esteem, scorn, affection, and Generosity is not alone as a passion requiring a mental act. Many

I want to suggest that the better part of the particular passions Descartes details in part 3 arise from our judgments about the value of things. That is, they arise through the process of reflection on what we naturally take to be the value of things. In this way, these particular passions arise in a way akin to the method of artifice. In regulating the passions through artifice, and engendering in ourselves new habits of feeling things, we appeal to our considered judgment about the value of things, and for these reasons come to feel differently about things than we do naturally. But reflection on the value of things need not result in our feeling differently about them so much as adding nuance to our assessments. We might find that in fact we have complicated feelings toward something, in proportion to our multiple relations to that thing. I might both admire my teacher's knowledge and yet be apprehensive about revealing my own ignorance in the face of that knowledge; that is, I might venerate my teacher. Likewise, we might not feel naturally

toward something in any particular way, and only come to have a determinate feeling upon reflecting on it. So, we might see a beggar on the street, and not know what to feel toward her, if anything. We come to feel pity, say, once we have formed a judgment about her situation, and judged her to have suffered some undeserved misfortune.

That we do feel passions as a result of judgments we make is not at odds with Descartes's account of the passions. Indeed, at the end of part 2, in article 147, Descartes introduces what he calls "internal emotions of the soul" which "are produced in the soul only by the soul itself" (AT, 11.440; CSM, 1.381, a.147). We feel these interior emotions because we have made a judgment about something's being good or bad for us. 55 Thus, "when we hear good news, it is first of all the mind which occurs without any bodily disturbance" (AT, 8.317; CSM, 1.281), or when at the theater we can be moved to sadness by the tragedy of the play, yet nevertheless take pleasure in being so moved (a.147). 56 It seems clear that Descartes thinks that our passions can come from two sources, our being in a bodily state and our making a judgment about the good or evil of things.

particular passions be misguided through our mistaken judgments misguided in their representations of our good and evil, so too can our our experience of the beggar. And just as our natural passions can be disembodied mind.<sup>57</sup> In experiencing what we do, we might develop habits of feeling certain ways; our feeling of pity might become tied to in the theater. While they are 'interior' passions, they are not those of a every day, we become both saddened and pleased at the play before us ural joinings of mental and physical states. To see how this might be so, are removed from our embodied experiences. We feel pity for the beggar we see on the street, we venerate the teacher we encounter first consider that their being 'interior' passions does not entail that they how it can be consistent to claim that we can directly change the natdiana in this way can help us to address the remaining issue facing PNH: considers in part 3 of the Passions are 'interior' passions (in that they ported only indirectly by the text, I do think reading part 3 of the Pasinvolve judgments we make about the good or evil of things) is sup-So, though this suggestion that many of the passions Descartes

ings toward her until we finally find ourselves feeling the pity, say, we arate within ourselves the movement of the blood and spirits from the ence of the beggar is a matter of bodily motions, by habit, or as ourselves very differently upon having the experience we do. That is, these particular passions, we rehabituate ourselves, so that we now find now feel. Rather, we feel this pity immediately. And so, in regulating seeing the beggar we work through each stage of reflection on our feelsecond part of PNH. and then presumably rejoin that physiology to another passion. That is, thoughts to which they are usually joined" (AT, 11.486; CSM, 1.403) we effectively join our passions to other bodily motions, for our experitakes we will undoubtedly make about her. It is not the case that upon in regulating our passions here, we realize the other aspect of the Descartes puts it at the very end of the Paulions, we can strive "to sepway does not require a string of judgments as long as the many misperhaps even pity. Coming to feel differently about the beggar in this about good and evil, we can come to feel differently toward the beggar which we feel by nature. We can ask ourselves why it is we mock the and correction of our judgments that we do in the case of those passions passions, then, we must undertake the same sort of process of reflection tune as deserved rather than undeserved. To regulate our particular rather than pitying her, for instance, if we have misjudged her misforabout the value of things. We can be misguided in mocking the beggar Through this process of reflection, and of correcting our judgments beggar, and rethink whether she, or anyone, deserves a fate like hers

But, one might ask, how is this consistent with the explanatory goal of PNH? On the reading I have put forward here PNH is meant to explain how thoughts and physical states stand in a causal relation to one another (whereby one not only has the power to affect the other, but to do so in a regular way). How can our ability to change the associations between thoughts and physiology be at all consistent with that aim? To answer this question we need to look again at Descartes's account of the natural joining of thoughts and physiological states. Recall that in the natural history of love, Descartes describes the soul as joining itself willingly with the physiology proper to love. That is, the soul itself acts in effecting the natural relation which stands between a

we reconceive our good. sible to maintain that we might well come to feel things differently as act on the part of the soul related to its conception of our good, it is poshave seen. We have also seen, however, that with reflection we can insofar as we understand our feeling the passions we do in virtue of an nature proper to a more developed union of mind and body. Thus, would seem that the soul, we, might well effect new regular relations thinking things. With this revised conception of our good, move beyond this natural good to one which incorporates our nature as that good is simply that which is conducive to our bodily survival, as we between thoughts and bodily states. That is, we might effect a second certain conception of our good. In the case of the primitive passions, between a sort of thought and a sort of bodily state just by taking up a to be suggesting that the soul effects a regularity in the connection a certain thought ..." (AT, 11.407; CSM, 1.365, a.107, emphasis mine), assigned to the soul in his various statements of PNH. Again, in article and in a.136 he writes verbatim the same thing. 58 Thus, Descartes seems 107 he writes, "once we have [now avons] joined some bodily action with Descartes's formulation here is not accidental, for this same activity is physiological state in the body and a thought. And it is clear that

# CONCLUSION: THE PASSIONS OF THE SOUL AND THE NATURE OF THE SOUL-BODY UNION

In this essay, I have offered an account of how The Pausions of the Soul hangs together as a whole. In providing this overview, I have undoubtedly opened up many questions which have been left unanswered. Certainly, we should want more clarification of the interior passions which I have suggested form the bulk of part 3, as well as of the straightforward bodily caused passions, and in particular of the way in which they are representational. We should also want to address the notion of causard indeed to elucidate this notion of natural joining further, just to mention some central philosophical issues which have arisen. I take it that an advantage of understanding the argument of the Pausions in the

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of soul and body. In this regard, it may help us in addressing the many preliminary steps in this direction. matter elsewhere in his writings. I would like to close by making some unanswered questions and cryptic remarks Descartes makes on this devoted to explicating and defending Descartes's account of the union the reading of the Passions put forward here, the work is largely is one further question I would like to consider in closing. According to begin to avail myself of this benefit here, however. Nevertheless, there as an insight into how to contextualize and frame them. I cannot even way I have laid it out here is the very raising of these questions as well

tinuous with Descartes's remarks about the union in both the Meditaclaims that "there are two facts about the human soul on which depend of his early letters to Elizabeth. In his letter of May 21, 1643, Descartes tions and Principles. We can also see the Passions as fulfilling the promise all the knowledge we can have of its nature. The first is that it thinks, everyday experience. He writes in the letter of June 28, act on the soul and cause its sensations and passions" notion of the soul's power to move the body, and the body's power to shape and motion; the second is thought, through which we conceive which we conceive body in particular, and which entails our notions tions" (AT, 3.665; CSMK, 3.218). The first<sup>69</sup> is extension, through were the patterns on the basis of which we form all our other concepupon along with it" (AT, 3.664; CSMK, 3.218). He then notes that he and the second is that, being united to the body, it can act and be acted itself. And he seems to suggest that we are able to know it just by ou that it can, like thought and extension, only be understood through He is clear that what makes our notion of the union a primitive one is together, we have only the notion of their union, on which depends out the soul on its own; and finally, "as regards the soul and the body lacuna, he goes on to outline those primitive notions which are "as it has heretofore said little about the second fact, and, as if to fill this Descartes make clear just what this third primitive notion consists in CSMK, 3.218). In neither this letter nor the next (June 28, 1643) does First, I hope to have already shown here how the Passions is con-(AT, 3.665)

...and finally what belongs to the union of the soul and the body is

soul and the body. (AT, 3.691-92; CSMK, 3.227). cise the imagination, that teaches us how to conceive the union of the abstention from meditation and from the study of things which exerunion...[I]t is the ordinary course of life and conversation, and regard both of them as a single thing, that is to say, they conceive their the soul moves the body and that the body acts on the soul. They who never philosophize and use only their senses have no doubt that tion, but it is known very clearly by the senses. That is why people known only obscurely by the intellect alone or even by the imagina-

also unsatisfying. For even if knowledge of our notion of the union is Descartes does not explicate that concept. We might think that he understand our living our lives as we do. In these letters to Elizabeth, arrive at an understanding of the union which can help us to better on my practice of thinking.60 Similarly, then, we should be able to understanding the nature of a thinking thing requires further reflection stand practically that I am thinking just by having a thought, but our conceptions." (AT, 3.665-66; CSMK, 3.218). I certainly undertate a primitive notion or "pattern on the basis of which we form . . . finally does so in the Passions. 61 standing is very different from the understanding which might explia thinking, embodied thing: I deliberate and make decisions about what union in two senses. I might have a real practical knowledge that I am cating what we take for granted. We would then be able to know the commonsensible, we might still think that there is some value in expliway if I stopped to decompose myself into a soul and a body. But it is izing my nature as a union of mind and body. But that practical under-Ishould pursue and avoid, how I should act, and in doing so I am realmyself as a whole person, and I would be hard pressed to go about my business certainly rings true—while I am leading my life I think of That the notion of the union is always with us as we go about our daily

to follow in any way from the natures of mind and body nor is it affect one another is simply asserted by Descartes, and does not seem oped here, there are two aspects to the union. First, soul and body are ture of it does the Passions paint? According to the reading I have develjoined in such a way that they can affect one another. This power to So, as Descartes's most developed treatment of the union, what pic-

explained in any way. Nevertheless, Descartes assumes that this ability to affect one another is consistent with his dualism. In addition, soul and body are joined in such a way that they affect one another in a regular way. Descartes does offer an explanation of this aspect of mind-body union. According to his explanation, a particular bodily state and a particular mental state are joined by nature in virtue of our good. Is the good which informs the union of thoughts and physical states derivable in some sense from the natures of mind and body? It seems it is in part, for our first passions are felt in accordance with the good of the body. And further, we can regulate those first passions not only by correcting for the misrepresentations of that bodily good, but also by drawing on that which is of value to the mind. In regulating our passions in this way, however, we come into ourselves as human beings, that is, beings with a good which is neither simply that of the body nor simply that of the mind, but with a good proper to the union of mind and body.

ciples, a substance is "a thing which exists in a such a way as to depend answer to this question must follow. As Descartes lays it out in the Prinon no other thing except god for its existence (AT, 8a.25; CSM, 1.210). case of mind and body, a thing which exists in such a way as to depend on no other thing for its existence" (AT, 8a.24; CSM, 1.210), or in the address this question adequately here, I would like to sketch the line any way. We need to better understand whether our good, according to lined in the passions, is an independent entity in a similar, call it a moral, sum of those wills. So, we need to get clear on whether the union, as out while joining the wills of its citizens, is something other than the mere posable into its composite parts. Thus, we might think that a republic, sort of thing is created, one which is independent in that it is not decomcomponent parts, one might well think that through this union a new cannot be a union of really distinct things without the existence of its independent in a different nonsubstance sense. While certainly there tence. Nevertheless, one might think that the union of mind and body is but also at least logically on the existence of mind and body for its exis-Now obviously, the union of mind and body depends not only on god Descartes, is a matter of coordinating the good of the body with that of Is this developed union a substance in its own right? While I cannot

the soul, or whether there is a seamless synthesis of these goods in the human being. As should be clear, I am inclined to say that the human good is something more than the mere coordination of mind and body. For, on my reading of the *Passions*, in reflecting on our passions and reconceiving our good we can engender new passions in us and equally forge new links between thoughts and bodily states. Thus, it seems to me that the union of mind and body has a life of its own, and so is an independent entity in this moral sense, even though it arises out of mind and body. I am not, however, able to fully defend this claim here.

ciple attribute, and that attribute gains expression through the various vocal with the way mind and body are substances. The Pawions, I recognize that the mind-body union is not a substance in a way unia principal attribute is supposed to be. Moreover, while the passions cipal attribute of a human being is its good, the leading of a good life. we should answer these questions. Perhaps we could say that the prinan entity with some independence from the substances of mind and would suggest, allow us to see how the union of mind and body can be the Principles. So it seems that at the very least the Passions allows us to principle attribute? What would be its modes? It is not at all clear how modes of the substance. What on this picture of the union would be the stance, for Descartes. For him, a substance is known through its prinindependent entity in this moral sense is still not to claim that it is a subbody, but yet still not be a substance in the same sense as mind and The Passions of the Soul conforms to the ontological categories laid out in far from clear that the Cartesian union of mind and body as outlined in they are thoughts and so properly speaking modes of mind. 62 It is thus themselves are proper to a human being, they are of the soul. That is, But it is hard to see how this good might be a quality of a substance, as But even if we grant my inclination, to claim that the union is an

In this essay I have shown just how Descartes follows the method of the physicist in *The Passions of the Soul*. He proceeds by laying out a set of first principles from which his account of the passions is meant to follow. Two of these principles are familiar, those concerning the natures of mind and body, but one seems to be new. This third principle, what I have termed the Principle of Nature and Habituation,

might go on to answer this question as well as the many others which soul-body union. I have only begun to address the last of these issues consistently that we can alter what comes to us naturally. The account states in terms of our good in this way, Descartes is able to maintain our good. By explaining the associations between mental and physical the result of an active association of the soul with the body in virtue of matter of an unexplained causal interaction between them. Rather it is cation, the natural joining of thoughts and bodily states is not a mere arise from reading that work.63 sions of the Soul, and its argument, to have set a firm base from which we the representationality of the passions, and the ontological status of the questions about such fundamental matters as his account of causation, there drawing out an account of the passions. According to this explidevoted to explicating and defending this third principle, and from the reading I have proposed here, the bulk of the Passions is indeed can join thoughts to other bodily states by artifice or habituation. Or here. I do hope, however, through laying out the structure of The Pad-Descartes provides here is not without its puzzles, however. It raises asserts that states of mind and of body are joined by nature but that we

#### NOTES

- 1. See the preface to the French edition: "I should like the reader first of all to go quickly through the whole book like a novel, without straining his attention too much or stopping at the difficulties which may be encountered" (AT, 9b.11; CSM, 1.185).
- 2. Though the trend is clearly changing, this work has often been read as a piece of a larger whole with the Treative of Man, part 5 of the Discourse, and the unfinished Description of the Human Body in which Descartes offers his contribution to the new mechanist accounts human biology, most directly identified with William Harvey's De Motu Cordia. Descartes read Harvey and, though he disagreed with him (wrongly) on some of the details, he agreed with his approach and manner of explanation. See the letters to Mersenne, November or December 1632 (AT, 1.263; CSMK, 3.40); and to Plempius, 15 February 1638 (AT, 1.521ff; CSMK, 3.79ff); as well as Discourse, part 5. See J. Dankmeijer, "Les Travaux biologique de René Descartes," Archives interna-

on Descartes's Meditations, ed. A. Rorty (Berkeley: University of California Amélie Rorty, "Cartesian Passions and the Union of Mind and Body," Eways teenth-Century Philosophy (Oxford: Oxford University Press, 1996). See also no. 1 (1990): 153-200; Susan James, Passian and Action: The Emotions in Seven-Press, 1986), pp. 513-34. 310-33; also, "Three Dualist Theories of the Passions," Philosophical Topics 19, Passions and Cartesian Dualism," Pacific Philosophical Quarterly 71 (1990): takes the whole of the work into account includes Paul Hoffman, "Cartesian L'homme des passions (Paris: Albin Michel, 1995). Recent work in English that Moreau (Leiden: EJ Brill, 1990), pp.176-95; and Denis Kambouchner, oult, The Soul and the Body, vol. 2 of Descartes's Philosophy, trans. R. Ariew (Minl'affect actif spinoziste," Spinoza: Issues and Directions, ed. E. Curley and P. F. Philosophie 37 (1983): 278-87; also, "De l'émotion intérieure chez Descartes à Beyssade, "La classification cartesiennes des passions," Revue Internationale de thropologie cartésienne (Paris: Presses Universitaires de France, 1990); J. M. Morale de Descartes (Paris: Presses Universitaires de France, 1962); also, L'anneapolis: University of Minnesota Press, 1985); Geneviève Rodis-Lewis, La justice to the multiplicity of elements in play in the work. See Martial Gueras Geneviève Rodis-Lewis, J. M. Beyssade, and Denis Kambouchner do more Rodopi, 1978). While Gary Hatfield, "Descartes's Physiology and Its Relation biological aspects of the work in doing so. Other French commentators, such part to the Passions to draw broader philosophical lessons, he emphasizes the (Cambridge: Cambridge University Press, 1992), pp. 335-70, does appeal in to His Psychology," The Cambridge Companion to Descartes, ed. J. Cottingham (1949): 691-706; G. A. Lindenboom, Dewartes and Medicine (Amsterdam: Descartes on the Localisation of the Soul," Irish Journal of Medical Sciences 6 tionale d'histoire des sciences 6 (1951): 675-80; Geoffrey Jefferson, "René

3. See letter from Elizabeth to Descartes, April 25, 1646 (AT 4.404f.). For Descartes's reply see his letter to her of May 1646 (AT, 4.407f; CSMK, 3.286).

4. The contrast here is Baconian empirical method. To say that Cartesian method is not empirical is not to claim that empirical evidence is unimportant for Cartesian science. The difference lies in whether empirical evidence is given theoretical, and even epistemic, priority.

5. He reiterates this point in identifying the fifth way of reaching wisdom, one "incomparably more elevated and more sure." This fifth way "consists in the search for the first causes and the true principles which enable us to deduce the reasons for everything we are capable of knowing" (AT, 9b.5; CSM, 1.181). There is a real interpretive question of what constitutes this 'following' relation.

In my discussion of the Passions I hope implicitly to make some prograddressing this question, but I will be unable to do so explicitly here.

6. His thoughts are preliminary. In *Principles* 4.188, he adverts to we jected parts of the work, one on animals and plants, the other on man incomplete because, he claims, "I am not yet completely clear about matters which I would like to deal with there" (AT, 8a.315; CSM, I was 7. Nor has he defended the claim of *Principles* 2.2 (AT, 8a.41; CSM.

8. In a letter of June 15, 1646, to Chanut, he writes: "I must say in

fidence that what little knowledge of physics I have tried to acquire have a great help to me in establishing sure foundations in moral philosophy. Indeed, I have found it easier to reach satisfactory conclusions on this topic than on many others concerning medicine" (AT, 4.441; CSMK, 3.289). And in a later letter, also to Chanut, of February 26, 1649, only shortly before the Passions is published, he writes: "these truths of physics are part of the foundation of the highest and most perfect morality" (AT, 5.290; CSMK, 3.368).

9. There is something unfamiliar about Descartes's presentation of these basics here: the discussion of the functions of body comes before that of the functions of soul. For someone proceeding en physicien this reversal of order is not trivial, since in doing so one aims to proceed from first principles to those that follow from it. But in both the Meditations and the Principles, the principle which comes first is that concerning the nature of mind, for, as Meditation Two makes clear, the mind is more immediately known than the body. Why does Descartes turn things around in the Passions? It seems that insofar as the work is about those thoughts which the soul has in virtue of its relation with the body, it makes a degree of expository sense to lay out the principle of the body first, then to consider the function of the soul, and then to consider how that function is affected by the soul's union with the body.

10. Thus, here Descartes reiterates the conclusion he garnered evidence for in *Principles* 4.

11. See the *Pawions*: "To this we may now add that the small gland which is the principal seat of the soul is suspended within the cavities containing these spirits, so that it can be moved by them in as many different ways as there are perceptible differences in the objects. But it can also be moved in various ways by the soul, whose nature is such that it receives as many different impressions—that is, it has as many different perceptions as there occur different movements in this gland. And conversely, the mechanism of our body is so constructed that simply by this gland's being moved in any way by the soul or by any other cause, it drives the surrounding spirits towards the pores of the brain, which direct them through the nerves to the muscles; and in this way, the gland

me interaction between mind and body here and throughout this much interaction between mind and body here and throughout this much mind, causation. While Descartes has often been read as treating in mind domain as a matter of causal powers, in recent years commensuated that Descartes presents a species of occasional causation. Nuller, "Descartes and Occasional Causation," British Journal for the viluophy (1994): 35–54; Margaret Wilson, Descartes. (London: Routsy, Modern Philosophy, ed. S. Nadler (University Park: Pennsylvania State tress, 1993), pp. 9–26. My own view is that Descartes has a troubling synthesis of these two sorts of position, one that later Cartesians go on to resolve. I cannot, however, argue for this position here. See also note 15 below.

union in the *Principles*. Drawing on the letter to Elizabeth of June, 28, 1643, in which Descartes claims that the union of mind and body is "known very clearly by the senses" and "through the ordinary course of life and conversation" (AT, 3.692; CSMK, 3.227), one might think he arrives at this claim through the method of the physicist. We observe in ourselves certain passions. We then turn to consider just what might be the case in order for this phenomenon to be achieved, and arrive at the insight that mind and body must be joined in some way so as to affect one another. On this account, however, one should note that while the joining of mind and body has the status of a first principle insofar as it is meant to explain empirically observed phenomena, it is nowhere independently justified in the way that those of the nature of mind and body and of the existence of god are.

13. He goes on in aa.42–43 to explicate just how, on this understanding of its power, the soul is able to exercise its faculties of memory, imagination, attention, and moving the body.

14. Objections to the internal consistency of Descartes's position begin with Elizabeth's letters of May 6 and June 20, 1643. In Descartes June 28, 1643, reply to her he maintains just what he does here, that mind and body are distinct substances but yet are joined. While he admits that we may have trouble conceiving both their distinctness and their union, Descartes still wants to have it ontologically both ways. But repeating it often doesn't convince everyone. Spinoza certainly rails against the plausibility of interactionism; see Baruch Spinoza, *Ethici*, trans. S. Shirley (Indianapolis: Hackett, 1992) part 5, preface, pp. 201–203. This problem with substance dualism might be understood to motivate his own ontology.

- 15. Descartes, unlike Hume, often seems to take causation to involve the potential to affect something. But, unlike the Aristotelian account, this causal power is not rooted in a substantial form or essence of a thing. I would argue that it is because he assumes this odd middle position that it makes sense for Descartes to claim that the body can affect the mind without claiming that it will affect it in the same way each time.
- 16. Though commentators often fail to distinguish these two components in their discussions of Descartes's conception of a human being, that these are two distinct parts is not new to Descartes's account. The Meditation Six account of the union of mind and body proceeds in a similar way.
- 17. While I am not altogether happy with it, I use here the Voss translation. 'Artifice' is nicely juxtaposed to 'natural' here, but unfortunately connotes a kind of deception or fakery which is off the mark, as I hope the interpretation which follows will make clear. The CSM, I translation of 'effort' is not precise enough, however. Gueroult's (Descartes's Philosophy) interpretation of this industrie as a technique comes closer, as I discuss below, but runs the risk of presupposing a view of this process as a kind of mechanism.
- 18. The translation of *babitude* as 'habituation' is Voss's. It is rendered by CSM as 'habit'. Although the translation of this passage as a whole is from CSM, I have preserved Voss's translation of this word, for reasons which the following discussion makes clear. *Ed.*
- 19. Not to belabor the point, but again note that, according to this reading, a claim that the relationship is a *regular* one is different, for Descartes, than a claim that the relationship involves a causal power, though the two claims are importantly intertwined in his account of a causal relationship. See notes 11 and 15 above.
- 20. There is another peculiarity of the principle as invoked in a.107. It is invoked there to explain nothing other than the physiology proper to each passion. This might seem peculiar given Descartes's letter to More of 1649. There Descartes claims that he needs only the principles of his physics to explain that physiology: "I hope to publish this summer a small treatise on the passions in which it will be seen how I think that even in us all the motions of our limbs which accompany the passions are not caused by the soul but simply by the machinery of the body. (AT, 5.344; CSMK, 3.374). But here he invokes another principle, one that cannot be derived only from Descartes's physics since it concerns the soul as well as the body. Are these claims consistent? I think they are. We can read Descartes as telling More that all he needs to explain the physiology itself is his physics. The workings of the body are affected by nothing other than the body. With the principle introduced in a.107 Descartes is explaining how that physiology is associated with a particular passion.

- 21. Voss separates the institution of nature from what he terms the "Principle of Habituation." For reasons which I hope will become clear, I think it is more appropriate to subsume these as one principle with two aspects. Voss also notes that Descartes claims that all that he writes about the passions follows from this principle (for Voss, two principles), but he does not, in his footnotes, detail the connections. I hope in this essay to be fulfilling this promissory note. See *Descartes: The Passions of the Soul*, translated and annotated by Stephen Voss (Indianapolis: Hackett, 1989), pp. 42–43 n. 43.
- 22. See, for instance, Wilson, Dewartes; Vere Chappell, "L'homme Cartésien," Objecter et répondre, ed. J. M. Beyssade and J. L. Marion (Paris: Presses Universitaires de France, 1984), pp. 403–26. Wilson complicates her view in Margaret Wilson, "Descartes on the Origin of Sensation," Philosophical Topics 19, no. 1 (1991): 293–324. My point here, however, does not depend on a particular understanding of 'causal relation'. It depends only on a reading which builds necessity into the natural joining of mind and body.
- 23. The puzzling claim here is not akin to that regarding a piece of technology. While under the Aristotelian system it might seem the whole science of mechanics is unnatural—in, say, lifting heavy weights, the mechanic is working against the natural propensity the thing has to fall—for Descartes, mechanics does not pose such a problem, as all such ways of working around practical problems through technology follow the laws of nature. However, on the standard reading I am considering here, the natural institution between mind and body is taken to be law-like. So in maintaining that there can be a real alteration in the way mind and body are naturally joined, Descartes appears to be claiming that we can violate god-given laws of nature. For more details on our potential for this sort of change see the discussion below.
- 24. For a similar account of this element of the regulation of the passions, see Gueroult, *Descarted's Philosophy*. For Gueroult, however, this technique is all there is to it, and on this point I differ with him, as will become clear below.
- 25. Our passions cannot likewise be directly excited or displaced by the action of our will, but they can be indirectly by the representation of things which are usually joined with the passions we will to have and opposed to the ones we will to reject. Thus, in order to excite boldness and displace fear in oneself, it is not sufficient to have the volition to do so. Rather, we "must apply ourselves to consider the reasons, objects, or precedents which persuade us that the danger is not great" (AT, 9.362–63; CSM, 1.345, a.45).
- 26. So, for Descartes, our emotional conflicts are not to be understood as battles between different parts of the soul. We find ourselves in emotional turmoil not because we feel an inner conflict, but because our pineal gland is

being pulled in two different directions, one by the passions, and the other by reason: "So there is no conflict here except in so far as the little gland in the middle of the brain can be pushed to one side by the soul and to the other side by the animal spirits" (AT, 11.365; CSM, 1.346, a.47). This bodily "conflict is revealed chiefly through the fact that the will, lacking the power to produce the passions directly... is compelled to make an effort to consider a series of different things" (ibid.). In order to control our passions we have to be vigilant in thinking contravening thoughts, for the passion can always return through the reversion to the original physiological state (ibid.).

27. By way of illustration, Descartes considers the way in which we move, as a matter of habit, from the thoughts of the sounds of spoken words (or the shape of written words) to the meanings of those words.

28. Here the analogy between this method of regulating the passions and the techniques of a mechanic is apt. Just as the mechanic violates no physical law in working around nature, so no psychophysical 'law' is violated in regulating our passions in this way. One might still ask, however, whether any mental 'law' is violated is cultivating certain associations. One might think of Spinoza as further developing this aspect of Descartes's account of the regulation of the passions.

29. Note that nothing in what Descartes says at the end of part 1 at all limits PNH to the passions in the specific sense. Indeed, the examples he uses by way of illustration—language learning, pains, taste for foods—seem particularly removed from the passions he goes on to consider. And insofar as our sensations of external objects and internal sensations, such as hunger and thirst, are also caused by motions of the gland, they, too, should be subject to PNH.

their physiological causes is also clear from the letters Descartes writes Elizabeth as he begins his project. In the letters of October 6 and November 3, 1645, Descartes bemoans to Elizabeth his confusion as to how to enumerate the passions, just because he thinks such an enumeration is necessary to understanding their nature: "These last few days I have been thinking about the number and order of all the passions, in order to examine their nature in detail. But I have not yet sufficiently digested my opinions on this topic." (to Elizabeth, November 3, 1645, AT, 4.332; CSMK, 3.227). He is not here concerned with gathering empirically adequate evidence, but rather with devising a principle through which to differentiate and thereby understand the passions. See also the letter of October 6, 1645: "I was planning to add a detailed explanation of all the passions. But I found it difficult to list them, and so I had to let the postman leave without my letter" (AT, 4.313, CSMK, 3.272).

In addition, it would be odd for him to distinguish the passions simply by their physiological causes since earlier he had claimed that the passions excited by a particular physiological state differ from person to person (a.39), a claim he repeats in a.136. What is constant from person to person is the explanation of the connections; even the connections themselves are idiosyncratic.

31. I would further suggest that definitions of the particular passions tell us more about what Descartes means by "refer to soul." The passions not only represent objects, they also represent us as standing in a certain relation to objects. Deborah Brown, "Reason and Representation in Descartes" (unpublished manuscript) argues for this sort of account of the representationality of the passions.

32. Along these general dimensions there are other variables: something new can be great or small, or a free cause; a good or evil in the future can be more or less likely, persistent, and depend on us to varying degrees.

33. Because the passions represent the importance of things to us, they move us to action, and wonder is no exception in this regard. It "makes us learn and retain in our memory things of which we were previously ignorant" (AT, 11.384; CSM, 1.354, a.75).

34. On occasion he identifies species of each primitive, apparently by the degree of the particular kind of importance each represents.

35. This difference in treatment makes some sense given Descartes's account of wonder's physiology; wonder results only from the motions of spirits in the brain and "has no relation with the heart and blood" (AT, 11.381; CSM, 1.353, a.71), and so it has no symptoms associated with changes of the heart and blood.

36. I am following Descartes in assigning the soul a kind of agency here. Note the formulation of PNH in a.107: "when we have joined some bodily action with a certain thought" (AT, 11.407; CSM, 1.365, a.107). The significance of this point will become evident later in this paper.

37. Alison Simmons, "Are Cartesian Sensations Representational?" Nother 33, no. 3 (1999): 347–69, discusses these passages in a similar vein. See also A. Simmons, "A Latent Teleology in Descartes's Account of Sensation" (unpublished manuscript).

38. And these sensations, just as do the passions, stimulate us to action. In the case of the pain in our foot, it "stimulates the mind to do its best to get rid of the cause of the pain, which it takes to be harmful to the foot" (AT, 7.88; CSM, 2.60).

39. The account of the *Passians* does differ in one respect from the Meditation Six account: our passions involve not only our well-being but our recog-

nition of that well-being. It is perhaps this self-referential character that explains Descartes distinguishing our passions as those perceptions caused by the body which refer to the soul.

- 40. For "it is much better that it [the sensation] should mislead on this occasion than that it should always mislead when the body is in good health" (AT, 7.89; CSM, 2.61).
- 41. And here he echoes the thought expressed earlier with regard to our ideas of the modes of particular things, and of such things as light, sound, and pain: "Despite the high degree of doubt and uncertainty involved here, the very fact that God is not a deceiver, and the consequent impossibility of there being any falsity in my opinions which cannot be corrected [emendare] by some other faculty supplied by God, offers me a sure hope that I can attain the truth even in these matters" (AT, 7.8; CSM, 2.55–56). Thanks to Annette Baier for drawing my attention to the Latin here.
- 42. As Descartes outlines it here, we can rely on our other senses, our memory, and our intellect, too: "For I know that in matters regarding the well-being of the body, all my senses report the truth much more frequently than not. Also, I can almost always make use of more than one sense to investigate the same thing; and in addition, I can use both my memory, which connects present experiences with preceding ones, and my intellect, which has by now examined all the causes of error" (AT, 7.89; CSM, 2.61).
- 43. I will not have time here to return to consider if and how such an 'emendation' of our nature is possible in the case of sensation. I will focus solely on the passions, since my aim here is to understand the structure of the Passions of the Soul. It is interesting to note, however, that Louis La Forge, Traité de l'apprit de l'homme (Amsterdam: Abraham Wolfgang, 1666) does draw a distinction between sensations and passions with regards to our capacity to emend them. And this distinction makes sense, for the objects of our sensations are more stable, where the importance of things to us is less so.
- 44. These misrepresentations affect our actions. Thus, in excessive wonder we become bemused by the newness of the objects, rather than interested in the objects themselves, and in other cases the passions "incite us to seek the former [represented goods] and flee the latter [represented evils] with more ardor and more attention [win] than is suitable" (AT, 11.431; CSM, 1.377, a.138). For in representing the importance of things, the passions move us to act. As Descartes notes in a.52, immediately after introducing the principle of taxonomy: "[t]he function of all the passions consists solely in this, that they dispose our soul to want the things which nature deems useful for us, and to persist in this volition" (AT, 11.372; CSM, 1.349, a.52). And so, as we have

seen, the use of wonder is in moving us to learn and remember, and in general the "natural function [of the primitive passions] is to move the soul to consent and contribute to actions which may serve to preserve the body or render it in some way more perfect" (AT, 11.430; CSM, 1.376, a.137). Just as we can control the effects of a dropsical thirst, we can regulate our passionate actions.

45. Meditation Six offers little guidance here, as Descartes has not yet recognized that there is a potential problem to be addressed.

46. See Lisa Shapiro, "Cartesian Generosity," Norms and Modes of Thinking in Descartes, Acta Filosofica Fennica 64 (1999): 249–75, for a more complete account.

47. The passions "are all by nature good" (AT, 11.485; CSM, 1.403, a.211); that is, they are those thoughts through which we aim at the good.

48. Descartes's account here leaves one somewhat puzzled about his account of action. Earlier in the work he suggests that the passions dispose us to will certain actions, so that any passion can lead directly to action. Here he suggests that our passions prompt our actions through the intermediary of desire, which for Descartes is a passion. I cannot here address Descartes's theory of action.

49. "[O]ur desire in this case must be fulfilled when we have followed this route, whatever evil may befall us; for, since any such evil was inevitable from our point of view, we had no reason to wish to be exempt from it: we had reason only to do the best that our intellect was able to recognize, as I am supposing that we did" (AT, 11.440; CSM, 1.381, a.146, emphasis mine).

50. "For if anyone lives in such a way that his conscience cannot reproach him for ever failing to do something he judges to be the best (which is what I here call 'pursuing virtue'), he will receive from this a satisfaction which has such power to make him happy that the most violent assaults of the passions will never have sufficient power to disturb the tranquility of his soul" (AT, 11.442; CSM, 1.382, a. 148). See also in the correspondence with Elizabeth (AT, 4.266 and CSMK, 3.258; AT, 4.275 and CSMK, 3.261-62; AT, 4.305 and CSMK, 3.268).

 For a more complete account of generosity see Shapiro, "Cartesian Generosity."

52. In part 2 Descartes has already detailed the different species of love hate, and desire. See aa.82–85, 88–90.

53. The full passage reads as follows: "And because vanity and generosity consist simply in the good opinion we have of ourselves—the only difference being that this opinion is unjustified in the one case and justified in the other—I think we can relate them to one and the same passion. This passion is pro-

duced by a movement made up of those of wonder, of joy and of love (self-love as much as the love we have for the cause of our self-esteem)" (ibid.).

54. Some of the passions Descartes details here seem to be mere emotions, feelings which move the soul to act but without representative character of their own. See for instance, courage and cowardice (a.171, a.174).

or intellectual passions? See Lisa Shapiro, "The Passions in the Meditation" make of the passions felt by the narrator of the Meditations: Are they interior primitive sensuous passions. There is also the interesting question of what to estingly, he makes no mention of intellectual desire or wonder, the other two intérieur," Revue philosophique de la France et de L'Étranger 4 (1988): 457-84. intériorité: L'institution naturelle des passions et la notion cartésienne du sens Beyssade, "De l'émotion intérieure"; and Denis Kambouchner, "La troisiéme (unpublished manuscript). For a discussion of these interior passions see though he does claim that we feel intellectual joy and sadness as well. Interobject of the intellect alone. Descartes's central example here is love of god clearly felt by a full-fledged human being making her way in the world. The does not seem that they are quite the same since the interior emotions are intellectual passions, on the other hand, can be felt simply by considering an and the letter to Chanut of February 1, 1648 (AT, 4.601ff; CSMK, 3.306)]? It stand to what Descartes calls intellectual passions [(AT, 8.317; CSM, 1.281); 55. It is an interesting question, in what relation do these interior emotions

56. See also the very complex example in the *Passionu*: "when a husband mourns his dead wife, it sometimes happens that he would be sorry to see her brought to life again. It may be that his heart is torn by the sadness aroused in him by the funeral display and by the absence of a person to whose company he was accustomed. And it may be that some remnants of love or of pity occur in his imagination and draw genuine tears from his eyes. Nevertheless, he feels at the same time a secret joy in his innermost soul..." (AT, 11.441; CSM, 1.381, a.147).

57. See note 55 above.

58. The other two statements, in a.44 and a.50, are more ambiguous, using the on construction and hence holding a middle voice between passive and active. I would suggest that we might read Descartes as here leaving the nature of this natural joining open until he has offered his account in part 2.

59. The first Descartes himself mentions are the most general primitive notions, which apply to everything we can conceive, including being, number, and duration. These are distinct from the other three in that though Descartes refers to these as attributes in the *Principles* (AT, 8a.27; CSM, 1.212), they are universals, or modes of thought and not of things, and hence they are not principal attributes, or attributes constitutive of things.

60. Indeed such is the progress of Meditation Two

61. This would be fitting, since a request from Elizabeth prompts him to write the work. Beyssade, "La classification cartésiennes," is sympathetic to this line. He wants to argue that Descartes' classification of the passions is a further articulation of this primitive notion.

62. Marleen Rozemond, *Descartes's Dualism* (Cambridge, Mass.: Harvard University Press, 1999) argues convincingly that sensations, and presumably passions as well, are modes of mind joined with a body.

63. I have been helped greatly in my thoughts on the Passians by Donald Ainslie, Paul Hoffman, Hans Lottenbach, and Alison Simmons, as well as the participants at the Descartes 2000 conference at the University of Toronto, especially André Gombay and Deborah Brown, and the Passians reading group at the NEH Summer Seminar on Descartes and his contemporaries held at Virginia Tech.