

PREFACE

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Previous portions of the work have appeared, in an earlier form, in several philosophical journals. I am grateful to the following journals for granting me permission to use this material: the appendix to chapter 3 appeared as, "Descartes and Circular Inertia," in *The Modern Schoolman*, 77, 1999, 1-11; part of chapter 4 appeared in, "Perfect Solidity: Natural Laws and the Problem of Matter in Descartes' Universe," *History of Philosophy Quarterly*, vol. 13, no. 2, April 1996, 187-204, and, "Descartes and Individual Corporeal Substance," in *British Journal for the History of Philosophy*, vol. 9, no. 1, 1-17; sections of chapter 5 in, "Descartes' Quantity of Motion: 'New Age' Holism meets the Cartesian Conservation Principle," in *Pacific Philosophical Quarterly*; vol. 99, no. 2, June 1999, 178-203; portions of chapter 6 in, "Descartes, Space-Time, and Relational Motion," in *Philosophy of Science*, 66 (March 1999) 117-139; portions of chapter 7 in, "Descartes' Forgotten Hypotheses on Motion: Kinematic Logic and

Relational Transfer," forthcoming in *Journal of Philosophical Research*; portions of chapter 8 in, "Huygens' Center-of-Mass Space-Time Reference Frame: Constructing a Cartesian Dynamics in the Wake of Newton's '*De Gravitatione*' Argument," in *Synthese*, 112: 247-269, 1997; and finally, portions of chapter 9 in, "Cartesianism and the Kinematics of Mechanisms: Or, How To Find Fixed Reference Frames in a Cartesian Space-Time," in *Noûs* 32:3 (1998) 364-385. Unless otherwise noted, all of the figures (illustrations) come from the Adam and Tannery complete edition of Descartes' *Oeuvres*, with each illustration linked to the specific citation provided in the text. The original illustrations/figures are not marked, however (namely, figures 1-7, 10, 17, 21, 24, 26-30).