

BIBLIOGRAPHY

Abbreviations

Nouvelles = Nouvelles de la Republique des
lettres. Amsterdam.

Paris Mem. Acad. Sci. = Memoirs de l'Academie
Royale des Sciences.

Phil. Trans. = Philosophical Transactions of
the Royal Society of London.

Acta Erud. = Acta Eruditorum

J. Hist. Republ. Lettres = Journal de l'histoire
de la republique des lettres

Primary Works

Jean d'Alembert, Traité de dynamique, 1st ed., Paris, 1743.

_____, Traité de dynamique, 2nd ed. of 1758, Paris, 1921.

Jean Bernoulli, "Discours sur les loix de la communication, du mouvement," Recueil des pièces qui ont remporté les prix de l'Academie Royale des Sciences, Paris, 1751, 2, 1-108.

Thomas Birch, The History of the Royal Society of London, 4 vols., London, 1934, 2.

Georg Bernhard Bulfinger, "Demonstrationes mechanicae de viribus corpori moto insitis et illarum mensura," Commentarii Academiae Imperialis Petropolitanae, 1 (1728) 45-120.

Jean-Louis Calandrin (anonymous), "Dissertation sur la force des corps," J. Hist. Republ. Lettres (1733) pt 2, 230.

Charles Etienne Louis Camus, "Du Mouvement accéléré par des ressorts et des forces qui resident dans les corps en mouvement," Paris Mem. Acad. Sci., (1728) 159-196.

Abbé Catalan, "Courte Remarque de M. l'Abbé D.C. où l'on montre a M.G.G. Leibnitz le paralogisme contenu dans l'objection precedent," Nouvelles 8, (1686) 1000-1005.

_____, "Remarque de M. l'Abbé D.C. sur la replique de M.L. touchant le principe méchanique de M. Des-cartes contenuë dans l'article III de ces nouvelles, mois de Fevrier, 1687," Nouvelles, 10 (1687) 577-590.

Gabrielle Emelie du Châtelet, Disertation sur la nature et propagation du feu, bound with "Reponse de Madame*** à la lettre que M. de Mairan lui a ecrité le 18 fevrier, 1741 sur la question des forces vives," Paris, 1744.

_____, Institutions de physique, Paris, 1740.

Samuel Clarke, A Collection of Papers Which Passed Between the Late Learned Mr. Leibniz and Dr. Clarke in the years 1715-1716, London, 1717.

_____, The Leibniz-Clarke Correspondance, Together With Extracts from Newton's Principia and Opticks, ed. with notes by H. G. Alexander, Manchester, 1956.

_____, "A Letter Occasioned by the Present Controversy Among Mathematicians Concerning the Proportion of Velocity and Force in Bodies in Motion," Phil. Trans., 35 (1727) 381-388.

Jean Pierre de Crousaz, "Discourse sur le principe, la nature, et la communication du mouvement," Recueil des pieces qui ont remporte les prix de l'Academie Royale des Sciences, Paris, 1751, 1, 1-67.

Abbé Deidier, Nouvelle refutation de l'hypothese des forces vives, Paris, 1741, 1-145.

John Theophilus Desaguliers, "An Account of some Experiments Made to Prove That the Force of Moving Bodies is Proportionable to Their Velocities," Phil. Trans., 32 (1723) 269-279.

_____, "Animadversions Upon Some Experiments Relating to the Force of Moving Bodies; With Two New Experiments on the Same Subject," Phil. Trans., 32 (1723) 285-290.

René Descartes, Philosophical Writings, ed. and trans. by E. Anscombe and P. T. Geach, Edinburgh, London, 1954.

_____, Oeuvres de Descartes, ed. C. Adam and P. Tannery, 13 vols., Paris, 1897-1913.

_____, The Philosophy of Descartes in Extracts From his Writings, trans. Henry A. P. Torrey, New York, 1892.

William Jacob 's Gravesande, "Essai d'une nouvelle theorie sur le choc des corps," Journal literaire de la Haye, 12 (1722) 1-54.

_____, Mathematical Elements of Natural Philosophy, Confirmed by Experiments, trans. J. T. Desaguliers, 2 vols, 5th ed., London, 1737, 1.

William Jacob 's Gravesande, "Nouvelles experiences sur la force des corps en mouvement," J. Hist. Republ. Lettres, (1733) pt 3, 381.

_____, Physica elementa mathematica, experimentis confirmata, sive, Introductio ad philosophiam Newtonianam, 2 vols, 3rd. ed., Leiden, 1742.

_____, "Remarques sur la force des corps en mouvement et sur le choc," Journal litteraire de la Haye, 13 (1729) Pt. I, 189-197, 407-432. Pt. II,

John Eames, "A Remark Upon the New Opinion Relating to the Forces of Moving Bodies, in the Case of the Collision of Non-elastic Bodies," Phil. Trans. 34 (1726) 183-187.

_____, "Remarks Upon a Supposed Demonstration, That the Moving Forces of the Same Body are Not as the Velocities but as the Squares of the Velocities," Phil. Trans., 34 (1726) 188-191.

Jacob Hermann, "De Mensura virium corporum," Commentarii Academiae Imperialis Petropolitanae, 1 (1728) 1-42.

_____, Phoronomia, sive de viribus et motibus corporum solidarum et fluidorum libri duo, Amsterdam, 1716.

Christian Huygens, Oeuvres completes, 22 vols, La Haye, 1888-1950.

_____, "A Summary Account of the Laws of Motion, Communicated by Mr. Christian Huygens in a Letter to the R. Society and Since Printed in the Journal des savans of March 18, 1669," Phil. Trans., 4 (1669) 925-928.

James Jurin, "An Inquiry into the Measure of the Force of Bodies in Motion: With a Proposal of an Experimentum Crucis to Decide the Controversy About It," Phil. Trans., 43 (1745) 423-440.

Immanuel Kant, "Gedanken von der wahren Schätzung der lebendigen Kräfte," Samtliche Werke, Leipzig, 1867, 1, 1-187.

Gottfried Wilhelm Leibniz, "Brevis Demonstratio erroris memorabilis Cartesii et aliorum circa legem naturalem, secundum quam volunt a Deo eandem semper quantitatem motus conservari; qua et in re mechanica abutuntur," Acta Erud., (1686) 161-163.

Gottfried Wilhelm Leibniz, Correspondance with Arnauld,
trans. G. R. Montgomery, La Salle, 1957.

_____, "DeCausa gravitatis et Defensio
sententiae sua veris naturae legibus contra Cart-
esianos" Acta Erud. (1690) 228-239.

_____, "De Legibus naturae et vera
aestimatione virium motricium contra Cartesianos.
Responsio ad rationes a Dn. Papino mense Jan. 1691,"
Acta Erud., (1691) 439-447.

_____, "Discours de metaphysique,"
Philosophischen Schriften, ed. C.I. Gerhardt,
Berlin, 1875-1890, 4, 442.

_____, "Essay de dynamique," Leibniz
et la dynamique, ed. P. Costabel, Paris, 1960.

_____, "Essay on Dynamics on the Laws
of Motion in which it is Shown that Not the Same
Quantity of Motion is Preserved but the Same Absol-
ute Force or Rether the Same Quantity of Moving
Action," New Essays Concerning Human Understanding,
trans. A. G. Langley, 3rd ed., La Salle, 1949.

_____, "Extrait d'une lettre de M.L.
sur un principe general, utile a l'explication des
loix de la nature, par la consideration de la
sagesse divine; pour servir de replique à la
response du R.P.M.," Nouvelles, 10 (1687) 475-753.

_____, Mathematische Schriften, ed.
C. L. Gerhardt, 9 vols. in 5, Halle, 1860, 2/2.

_____, Philosophical Papers and Letters,
ed. and trans. L. E. Loemker, 2 vols., Chicago,
1956.

_____, Philosophische Schriften, ed.
ed. C. I. Gerhardt, 7 vols., Berlin, 1895-90.

_____, "Replique de M.L. a M. l'Abbé
D.C. contenuë dans une lettre écrite a l'auteur
de ces nouvelles de 9 de janv., 1687," 9 (1687)
131-144.

_____, "Reponse de M.L. a la remarque
de M. l'Abbé D.C. contenuë dans l'Article I de ces
Nouvelles, mois de juin, 1687, ou il pretend soutenir
une loi de la nature avancée par M. Descartes,"
Nouvelles, 11 (1687) 952-956,

Gottfried Wilhelm Leibniz, Theodicy, ed. Austin Farrer, trans. E. M. Huggard, London, 1951.

Jacques Eugène d'Allonville de Louville, "Sur la théorie des mouvements variés, c'est à-dire qui sont continuellement accélérés, ou continuellement retardés, avec la manière d'estimer la force de corps mouvement," Paris Mem. Acad. Sci. (1729) 154-184.

Colin Maclaurin, "Demonstration des loix du choc des corps," Recueil des pièces qui ont remporté les prix de l'Académie Royale des Sciences, Paris, 1751, 1, 1-24.

Jean Jacques de Mairan, "Dissertation sur l'estimation et la mesure des forces motrices des corps," Paris Mem. Acad. Sci., (1728) 1-49.

_____, Lettre à Madame*** sur la question des forces vives en response aux objections, Paris, 1741, 38pp.

Nicolas Malebranche, "Extrait d'une lettre du P.M. à M. l'Abbé D.C." Nouvelles, 9 (1687) 448-450.

Jean Simon Mazières "Les Loix du choc des corps à ressort parfait ou imparfait, deduites d'une explication probable de la cause physique du ressort," Recueil des pièces qui ont remporté les prix de l'Académie Royale des Sciences, Paris, 1751, 8, 1-57.

Issac Newton, Opticks, based on 4th edition of 1740, New York, 1952.

Denis Papin, "De Gravitatis causa et proprietatibus observationes," Acta Erud., (1689) 183-188.

_____, "Mechanicorum de Viribus motricibus sententia, asserta a D. Papino adversus cl. G.G.L. objectiones," Acta Erud. (1691) 6-13.

Henry Pemberton, "A Letter to Dr. Mead, Coll. Med. Lond. and Soc. Reg. S. Concerning an Experiment, whereby It Has Been Attempted to Shew the Falsity of the Common Opinion in Relation to the Force of Bodies in Motion," Phil. Trans., 32 (1722) 57-66.

Johannis Marchionis Poleni, De Castellis per quae derivantur fluviorum latera convergentia, Padua, 1720, 65 pp.

***, "Sur les loix du choc des corps," Paris Mem. Acad. Sci. (1706) 124-139.

***, "Sur la force des corps en mouvement," Paris, Mem. Acad. Sci. (1721) 81-85.

***, "Sur la force des corps en mouvement," Paris Mem. Acad. Sci. (1728) 73-97.

***, "Sur la force des corps en mouvement," Paris Mem. Acad. Sci. (1741) 149-153.

Francois Voltaire, "Doutes sur la mesure des forces motrices et sur leur nature, présentée a l'acadmie des sciences de Paris en 1741," Oeuvres completes, 52 vols., Paris, 1819-1825, 28, 420-430.

John Wallis, Mechanica, sive de Motu, 2 vols., London, 1669-1671.

_____, "A summary Account of the General Laws of Motion by way of a Letter Written...to the Publisher and Communicated to the Royal Society Nov. 26, 1668, "Phil. Trans. 3 (1669) 864-866.

Christian Wolff, Ejementa Matheseos Universae, 5 vols., 9th ed., Geneva, 1732, 2, 61,62.

_____, "Principia dynamica," Commentarii Academiae Imperialis Petropolitanae, 1 (1728) 217-238.

Christopher Wren, "Theory Concerning the Same Subject /the General Laws of Motion/ Imparted to the Royal Society, Dec. 17 /1668/..., "Phil. Trans., 3 (1669) 867-868.

Secondary Sources

- Aiken, "On the History of Force," Phil. Mag. /47
28, 472.
- William H. Barber, Leibniz in France from Arnauld to
Voltaire. A Study in French Reactions to Leibniz-
ianism, 1670-1760, Oxford, 1955.
- Yvon Belazel, Leibniz-Critique de Descartes, Paris, 1960.
- Arthur E. Bell, Christian Huygens, and the Development of
Science in the Seventeenth Century, London, 1947.
- Pierre Brunet, Mauvertuis, 2 vols., Paris, 1929.
- Florian Cajori, A History of Physics in Its Elementary
Branches, New York, 1924, 51-53.
- I. Bernard Cohen, Franklin and Newton, Philadelphia, 1956.
- Pierre Costabel, "Le De Viribus Vivis de R. Bosovic ou
de la vertu des querelles de mots," Archives inter-
nationales d'histoire des sciences (1961) 54-57.
- Pierre Costabel, Leibniz et la dynamique, Paris, 1960.
- Henry Crew, The Rise of Modern Physics, Baltimore, 1935,
139-142.
- Eduard Jan Dijksterhuis, The Mechanization of the World
Picture, trans. C. Dikshoorn, Oxford, 1961.
- René Dugas, La Mécanique au XVII siècle, des antécédents
scholastiques à la pensée classique, Paris,
Neuchâtel, 1954.
- _____, A History of Mechanics, trans. J. R. Maddox,
Neuchâtel, 1955.
- Martial Gueroult, Dynamique et métaphysique leibniziennes,
Paris, 1934.
- Elizabeth S. Haldane, Descartes, His Life and Times,
New York, 1905.

Erwin Hiebert, Historical Roots of the Principle of Conservation of Energy, Madison, 1962.

Max Jammer, Concepts of Force, Cambridge, Mass., 1957.

_____, Concepts of Mass, Cambridge, 1961.

Alexander Koyré and I. Bernard Cohen, "Newton and the Leibniz-Clarke Correspondance," Archives internationales d'histoire des sciences, 15 (1962) 63-126.

Thomas Kuhn "Energy Conservation as Simultaneous Discovery," Critical Problems in the History of Science, Madison, 1959.

Ernst Mach, History and Root of the Principle of the Conservation of Energy, trans. Philip E. B. Jourdain, Chicago, 1911.

_____, The Science of Mechanics, trans. T. J. McCormack, La Salle, 1942.

John Theodore Merz, Leibniz, New York, 1948.

Emile Meyerson, Identity and Reality trans. Kate Loewenberg, London, 1930.

J. F. Montucla, Histoire des mathématiques, 3 vols., Paris, 1799-1802 (first edition, 2 vols., 1758) 3.

Paul Mouy, Le developpement de la physique Cartesienne, 1646-1712, Paris, 1934.

_____, Les Lois du choc des corps d'après Malebranche, Paris, 1927.

John Bernhard Stallo, The Concepts and Theories of Modern Physics, New York, 1882, 71-72.

Jeremias David Reuss, Repertorium commentationum a societ- atibus litterariis editarum, 16 vols., Gottingen, 16 vols., Gottingen, 1801-21.

Bertrand Russell, A Critical Exposition of the Philosophy of Leibniz, London, 1958.

Alexandre Soverien, Dictionnaire universel de mathématique et de physique, 2 vols., Paris, 1753.

Joseph Frederick Scott, The Mathematical Work of John Wallis, London, 1938.

- Joseph Frederick Scott, The Scientific Work of René Descartes, London, 1952.
- Wilson L. Scott, "The Significance of Hard Bodies in the History of Scientific Thought," Isis, (1959) 199-210.
- _____, The Significance of Hard Bodies in the History of Scientific Thought, Thesis, Johns Hopkins University, 1958.
- Norman Kemp Smith, New Studies in the Philosophy of Descartes, London, 1952.
- Robert Catesby Taliaferro, The Concept of Matter in Descartes and Leibniz, Notre Dame, 1964.
- William Whewell, History of the Inductive Sciences, 3rd ed., 2 vols., New York, 1872, 1, 361.
- Abraham Wolf, A History of Science, Technology and Philosophy in the 18th Century, 2nd ed., New York, 1961, 1, 61, 62.

TITLE OF THESIS THE CONTROVERSY OVER LIVING FORCE: LEIBNIZ TO D'ALEMBERT

Full Name Carolyn Merchant Iltis

Place and Date of Birth Rochester, New York 7/12/36

Elementary and Secondary Education

Public School 23, Rochester, New York

Monroe High School, Rochester, New York

Colleges and Universities: Years attended and degrees

Vassar College, 1954-1958 A. B.

University of Wisconsin, 1959-1962 M.A.

Membership in Learned or Honorary Societies

History of Science Society

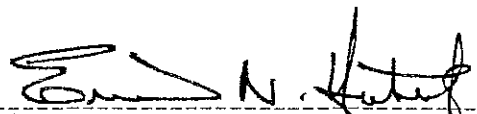
Publications

Major Department History of Science

Minors Philosophy

Date March 15, 1967

Signed



Professor in charge of thesis