DEFINITIONS

AXIOMS, OR LAWS OF MOTION

BOOK I. OF THE MOTION OF BODIES

SECTION

I. Of the method of first and last ratios of quantities, by the help whereof we demonstrate the propositions that follow
II. Of the invention of centripetal forces
III. Of the motion of bodies in eccentric conic sections
IV. Of the finding of elliptic, parabolic, and hyperbolic orbits, from the focus given
V. How the orbits are to be found when neither focus is given
VI. How the motions are to be found in given orbits
VII. Concerning the rectilinear ascent and descent of bodies
VIII. Of the invention of orbits wherein bodies will revolve, being acted upon by any sort of centripetal force
IX. Of the motion of bodies in moveable orbits, and of the motion of the apsides
X. Of the motion of bodies in given superficies, and of the reciprocal motion of funependulous bodies
XI. Of the motion of bodies to each other with centripetal forces
XII. Of the attractive forces of spherical bodies
XIII. Of the attractive forces of bodies which are not of a spherical figure
XIV. Of the motion of very small bodies when agitated by centripetal forces tending to the several parts of any very great body

BOOK II. OF THE MOTION OF BODIES (contd.)

SECTION

I. Of the motion of bodies that are resisted in the ratio of velocity
II. Of the motion of bodies that are resisted in the duplicate ratio of their velocities
III. Of the motions of bodies which are resisted partly in the ratio of the velocities, and partly in the duplicate of the same ratio
IV. Of the circular motion of bodies in resisting mediums
V. Of the density and compression of fluids; and of hydrostatics
VI. Of the motion and resistance of funependulous bodies
VII. Of the motion of fluids and the resistance made to projected bodies
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IX. Of the circular motion of fluids

BOOK III. THE SYSTEM OF THE WORLD

RULES OF REASONING IN PHILOSOPHY

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GENERAL SCHOLIUM