



An Introduction to Celestial Mechanics (Paperback)

By F.R. Moulton

Dover Publications Inc., United States, 1984. Paperback. Condition: New. New edition. Language: English . Brand New Book. An unrivaled text in the field of celestial mechanics, Moulton's theoretical work on the prediction and interpretation of celestial phenomena has not been superseded. By providing a general account of all parts of celestial mechanics without an over-full treatment of any single aspect, by stating all the problems in advance, and, where the transformations are long, giving an outline of the steps which must be made, and by noting all the places where assumptions have been introduced or unjustified methods employed, Moulton has insured that his work will be valuable to all who are interested in the subject. The text is divided into ten chapters which progress logically in terms of the difficulty of their subject matter. They are: Fundamental Principles and Definitions, Rectilinear Motion, Central Forces, The Potential and Attractions of Bodies, The Problem of Two Bodies, The Determination of Orbits, The General Integrals of the Problem of n Bodies, The Problem of Three Bodies, Perturbations ? Geometrical Considerations, and Perturbations ? Analytical Method. Important topics covered include general equations, motion of falling particles, the heat of the sun, simultaneous...



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