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Ellipsoidal figures of equilibrium - NASA/ADS

During the 1960s, Chandrasekhar mainly studied ellipsoidal figures of equilibrium. His understanding of planetary rotation and the rotation of white dwarfs, neutron stars, black holes, galaxies,...

Ellipsoidal Figures of Equilibrium - Subrahmanyan ...

The theory of equilibrium figures of self-gravitating objects has a long history beginning at the time of Isaac Newton. Renowned mathematicians and astrophysicists such as Maclaurin, Jacobi, Dedekind, Riemann, Roche and Darwin worked on this problem and found ellipsoidal figures of equilibrium named after them (Chandrasekhar 1987). Under such simplifications as uniform density and uniform rotation or uniform vorticity, these solutions are expressed by simple polynomials, sinusoidal functions ...

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Ellipsoidal Figures of Equilibrium. Subrahmanyan Chandrasekhar. New Haven - 264 oldal. 0 Ismertetők. Mit mondanak mások - Írjon ismertetőt. Nem találtunk ismertetőket a szokott helyeken. Más kiadások - Összes megtekintése. Ellipsoidal Figures of Equilibrium

Ellipsoidal Figures of Equilibrium - Subrahmanyan ...

Additional Physical Format: Online version: Chandrasekhar, S. (Subrahmanyan), 1910-1995. Ellipsoidal figures of equilibrium. New York : Dover, 1987

This book by a Nobel Laureate provides the foundation for analysis of stellar atmospheres, planetary illumination, and sky radiation. Suitable for students and professionals in physics, nuclear physics, astrophysics, and atmospheric studies. 1950 edition.

This is the fourth of six volumes collecting significant papers of the distinguished astrophysicist and Nobel laureate S. Chandrasekhar. His work is notable for its breadth as well as for its brilliance; his practice has been to change his focus from time to time to pursue new areas of research. The result has been a prolific career full of discoveries and insights, some of which are only now being fully appreciated. Chandrasekhar has selected papers that trace the development of his ideas and that present aspects of his work not fully covered in the books he has periodically published to summarize his research in each area. Volume 4 has three parts. The first, on plasma physics, includes joint work with A. N. Kaufman and K. M. Watson on the stability of the pinch, as well as a paper on Chandrasekhar's own approach to the topic of adiabatic invariants. Part 2 includes work with specific scientific applications of hydrodynamic and hydromagnetic stability not covered in his monograph on the subject. The final part contains Chandrasekhar's papers on the scientific applications of the tensor-virial theorem, in which he restores to its proper place Riemann's neglected work with ellipsoidal figures.

Dear Reader, Here is your book. Take it, run with it, pass it, punt it, enjoy all the many things that you can do with it, but-above all-read it. Like all textbooks, it was written to help you increase your knowledge; unlike all too many textbooks that you have bought, it will be fun to read. A preface usually tells of the author's reasons for writing the book and the author's goals for the reader, followed by a swarm of other important matters that must be attended to yet fit nowhere else in the book. I am fortunate in being able to include an insightful prepublication review that goes directly to my motivations and goals. (Look for it following this preface.) That leaves only those other important matters. In preparing the text, I consulted a number of books, chief of which included these: □ S. Chandrasekhar, Ellipsoidal Figures of Equilibrium, Yale Uni versity Press, 1969. □ J .M.A. Danby, Fundamentals of Celestial Mechanics, Macmil lan, 1962. Now available in a 2nd edition, 3rd printing, revised, corrected and enlarged, Willmann-Bell, 1992. □ Y. Hagihara, Theories of Equilibrium Figures of a Rotating Ho mogeneous Fluid Mass, NASA, 1970. □ R.A. Lyttleton, The Stability of Rotating Liquid Masses, C- ix x PREFACE bridge University Press, 1953. □ C.B. Officer, Introduction to Theoretical Geophysics, Springer Verlag, 1974. □ A.S. Ramsey, Newtonian Attraction, Cambridge University Press, 1949. □ W.M. Smart, Celestial Mechanics, Longmans, Green, and Co, 1953.

The Nobel Laureate's monumental study surveys hydrodynamic and hydromagnetic stability as a branch of experimental physics, surveying thermal instability of a layer of fluid heated from below, Benard problem, more.

During the last three decades geosciences and geo-engineering were influenced by two essential scenarios: First, the technological progress has changed completely the observational and measurement techniques. Modern high speed computers and satellite based techniques are entering more and more all geodisciplines. Second, there is a growing public concern about the future of our planet, its climate, its environment, and about an expected shortage of natural resources. Obviously, both aspects, viz. efficient strategies of protection against threats of a changing Earth and the exceptional situation of getting terrestrial, airborne as well as spaceborne data of better and better quality explain the strong need of new mathematical structures, tools, and methods. Mathematics concerned with geoscientific problems, i.e., Geomathematics, is becoming increasingly important. The 'Handbook Geomathematics' as a central reference work in this area comprises the following scientific fields: (I) observational and measurement key technologies (II) modelling of the system Earth (geosphere, cryosphere, hydrosphere, atmosphere, biosphere) (III) analytic, algebraic, and operator-theoretic methods (IV) statistical and stochastic methods (V) computational and numerical analysis methods (VI) historical background and future perspectives.

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