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Half a century ago, S. Chandrasekhar wrote these words in the preface to his l celebrated and successful book: In this monograph an attempt has been made to present the theory of stellar dy namics as a branch of classical dynamics - a discipline in the same general category as celestial mechanics. [...] Indeed, several of the problems of modern stellar dy namical theory are so severely ...

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The first volume begins with classical mechanics and with a thorough treatment of the 2-body problem, including regularization, followed by an introduction to the N-body problem with particular attention given to the virial theorem. Then the authors discuss all important non-perturbative aspects of the 3-body problem.

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This book Anatomy for NEET PG : Theory & MCQ's Volume 1 is being crafted based on the latest syllabus and guidelines of NEET PG. Anatomy Theory & MCQ's are based on Standard Anatomy Text Books like Gray's, Grant's and Snell's Anatomy. Theory has been covered in small chapters and all points are given in bullet text along with simple diagrams and flow charts. Multiple Choice Questions are based on concepts like clinical application, anatomical and embryological basis of the problems and important surgical relations. This volume is covering complete syllabus for anatomy of Head & Neck, Brain & Upper Limb. This volume is complete in all aspects and consist of 2500 latest and all new MCQ's along with theory. Each section is sub divided into small chapters like osteology, joints, arteries, nerves and veins on system basis as well as region wise like axilla, arm, forearm, hand, etc.

Isaac Newton encrypted his discoveries in analysis in the form of an anagram that deciphers to the sentence, 'It is worthwhile to solve differential equations'. Accordingly, one can express the main idea behind the orbit method by saying 'It is worthwhile to study coadjoint orbits'. The orbit method was introduced by the author, A. A. Kirillov, in the 1960s and remains a useful and powerful tool in areas such as Lie theory, group representations, integrable systems, complex and symplectic geometry, and mathematical physics. This book describes the essence of the orbit method for non-experts and gives the first systematic, detailed, and self-contained exposition of the method. It starts with a convenient 'User's Guide' and contains numerous examples. It can be used as a text for a graduate course, as well as a handbook for non-experts and a reference book for research mathematicians and mathematical physicists.

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Theory of Orbits: The Restricted Problem of Three Bodies is a 10-chapter text that covers the significance of the restricted problem of three bodies in analytical dynamics, celestial mechanics, and space dynamics. The introductory part looks into the use of three essentially different approaches to dynamics, namely, the qualitative, the quantitative, and the formalistic. The opening chapters consider the formulation of equations of motion in inertial and in rotating coordinate systems, as well as the reductions of the problem of three bodies and the corresponding streamline analogies. These topics are followed by discussions on the regularization and writing of equations of motion in a singularity-free systems; the principal qualitative aspect of the restricted problem of the curves of zero velocity; and the motion and nonlinear stability in the neighborhood of libration points. This text further explores the principles of Hamiltonian dynamics and its application to the restricted problem in the extended phase space. A chapter treats the problem of two bodies in a rotating coordinate system and treats periodic orbits in the restricted problem. Another chapter focuses on the comparison of the lunar and interplanetary orbits in the Soviet and American literature. The concluding chapter is devoted to modifications of the restricted problem, such as the elliptic, three-dimensional, and Hill 's problem. This book is an invaluable source for astronomers, engineers, and mathematicians.

String Theory comprises two volumes which give a comprehensive and pedagogic account of the subject. Volume 1, first published in 1998, provides a thorough introduction to the bosonic string. The first four chapters introduce the central ideas of string theory, the tools of conformal field theory and of the Polyakov path integral, and the covariant quantization of the string. The next three chapters treat string interactions: the general formalism, and detailed treatments of the tree level and one loop amplitudes. Chapter eight covers toroidal compactification and many important aspects of string physics, such as T-duality and D-branes. Chapter nine treats higher-order amplitudes, including an analysis of their finiteness and unitarity, and various nonperturbative ideas. An appendix giving a short course on path integral methods is included. This is an essential text and reference for graduate students and researchers interested in modern superstring theory.

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