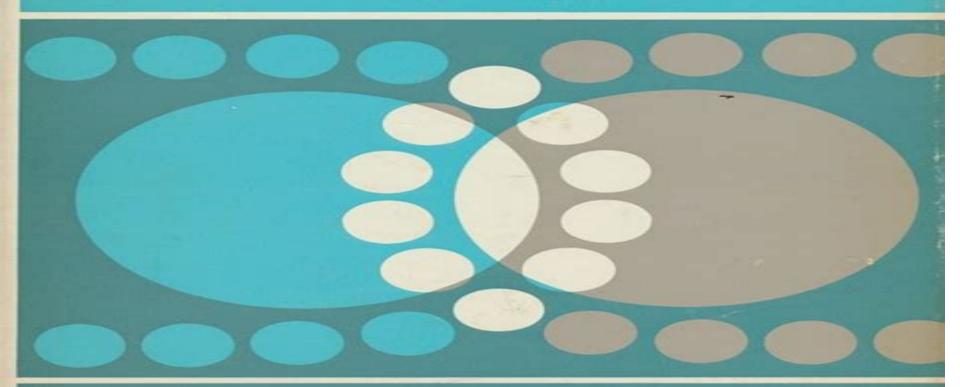
Mechanics

Second Edition

Course of Theoretical Physics Volume 1

L.D. Landau and E.M. Lifshitz Institute of Physical Problems USSR Academy of Sciences



Pergamon Press

Theoretical Mechanics

James Jeans

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Soft Solids Alan D. Freed, 2014-03-10 This textbook presents the physical principles pertinent to the mathematical modeling of soft materials used in engineering practice including both man made materials and biological tissues It is intended for seniors and masters level graduate students in engineering physics or applied mathematics It will also be a valuable resource for researchers working in mechanics biomechanics and other fields where the mechanical response of soft solids is relevant Soft Solids A Primer to the Theoretical Mechanics of Materials is divided into two parts Part I introduces the basic concepts needed to give both Eulerian and Lagrangian descriptions of the mechanical response of soft solids Part II presents two distinct theories of elasticity and their associated theories of viscoelasticity Seven boundary value problems are studied over the course of the book each pertaining to an experiment used to characterize materials These problems are discussed at the end of each chapter giving students the opportunity to apply what they learned in the current chapter and to build upon the material in prior chapters Advanced Theoretical Mechanics Brian H. Chirgwin, Charles Plumpton, 2013-10-22 Advanced Theoretical Mechanics deals with advanced theoretical mechanics in three dimensions making use of concepts and methods such as matrices vectors tensors and transformation methods. The definition of a vector via the transformation law obeyed by its components is emphasized and matrix methods are used to handle sets of components Special attention is given to the definition of angular velocity and the proof that it can be represented by a vector This book is comprised of 11 chapters and begins with an introduction to kinematics in three dimensions Lagrange s equations and analytical dynamics are then presented along with the simpler problems of three dimensional dynamics often with the help of rotating axes Stability and small oscillations are also considered. The subsequent chapters focus on the dynamics of a particle and the motion of a system of particles gyroscopic motion free rotation and steady motion oscillations of a dynamical system with a finite number of degrees of freedom and the vibrations of strings The final chapter is devoted to analytical dynamics paying particular attention to Hamilton's principle and equations of motion as well as the Hamilton Jacobi equation This monograph is intended for engineers and scientists as well as students of mathematics physics and engineering An Elementary Treatise on Theoretical Mechanics Alexander Ziwet, 1898 Theoretical Mechanics,

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