

Mechanics : an intensive course

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Abstrak

During the last 20-25 years, classical mechanics has undergone an important revival associated with the progress in non-linear dynamics, applications of Noether's theorem and the extension of variational principles in various interdisciplinary sciences (for instance, magnetofluid dynamics). Thus, there ought to exist a book concerned with the applied analytical formalism, first developed in the frame of theoretical mechanics, which has proved to be one of the most efficient tools of investigation in the entire arena of science. The present book is an outcome of the authors' teaching experience over many years in different countries and for different students studying diverse fields of physics. The original presentation and the distribution of the topics, the various applications in many branches of physics and the set of more than 100 proposed problems.