



A Course on Classical Mechanics (Hardback)

By Madhumangal Pal

Alpha Science International Ltd, United Kingdom, 2009. Hardback. Condition: New. Language: English . Brand New Book. Classical Mechanics develops the subject gradually by illustrating several examples for the beginners. The text begins with Newton s laws, the fundamental formulae of particle dynamics. But, it is known that these laws are not applicable in some cases, viz. the rotating frames. The rotating frames and the effect of Coriolis forces are introduced in this book along with Lagrangian and Hamiltonian procedures. The Euler s method, Euler s angles and motion of a symmetrical top, the variational principle and its applications, the principle of least action, the canonical transformations and two important mechanical tools - Poisson and Lagrange brackets are incorporated in this book. The problems involved in small oscillation are solved by finding eigenvalues and eigenvectors of the kinetic energy and potential energy matrices. The last chapter is devoted to the special theory of relativity.

DOWNLOAD



READ ONLINE
[7.45 MB]

Reviews

An extremely awesome pdf with perfect and lucid reasons. I have got go through and so i am certain that i will going to read again once again in the foreseeable future. I found out this ebook from my dad and i recommended this publication to understand.

-- **Angela Kassulke**

Complete information! Its such a excellent study. It is filled with knowledge and wisdom I realized this publication from my dad and i advised this publication to find out.

-- **Geovanny Grimes**