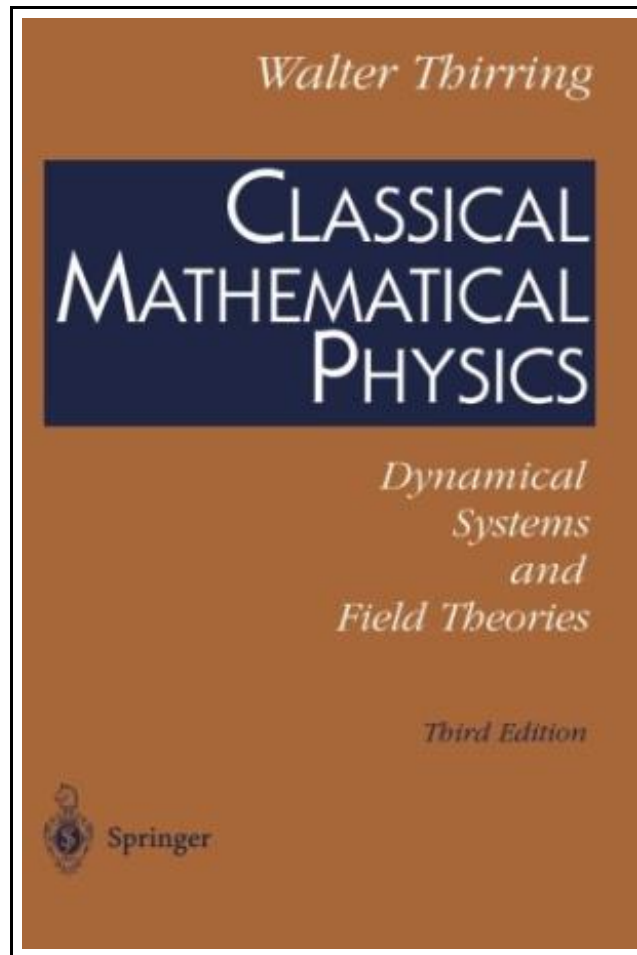


Classical Mathematical Physics



Filesize: 8 MB

Reviews

Complete guide! Its such a excellent read through. It is full of wisdom and knowledge I am very happy to inform you that here is the very best pdf i have got study inside my very own daily life and might be he very best pdf for possibly.

(Mr. Ronaldo Kulas)

CLASSICAL MATHEMATICAL PHYSICS

DOWNLOAD



To download **Classical Mathematical Physics** eBook, please refer to the web link under and save the ebook or have accessibility to other information that are relevant to CLASSICAL MATHEMATICAL PHYSICS ebook.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Dynamical Systems and Field Theories | This volume combines the enlarged and corrected editions of both volumes on classical physics of Thirring's famous course in mathematical physics. With numerous examples and remarks accompanying the text, it is suitable as a textbook for students in physics, mathematics, and applied mathematics. The treatment of classical dynamical systems uses analysis on manifolds to provide the mathematical setting for discussions of Hamiltonian systems, canonical transformations, constants of motion, and perturbation theory. Problems discussed in considerable detail include: nonrelativistic motion of particles and systems, relativistic motion in electromagnetic and gravitational fields, and the structure of black holes. The treatment of classical fields uses the language of differential geometry throughout, treating both Maxwell's and Einstein's equations in a compact and clear fashion. The book includes discussions of the electromagnetic field due to known charge distributions and in the presence of conductors as well as a new section on gauge theories. It discusses the solutions of the Einstein equations for maximally symmetric spaces and spaces with maximally symmetric submanifolds; it concludes by applying these results to the life and death of stars. | I Classical Dynamical Systems.- 1 Introduction.- 1.1 Equations of Motion.- 1.2 The Mathematical Language.- 1.3 The Physical Interpretation.- 2 Analysis on Manifolds.- 2.1 Manifolds.- 2.2 Tangent Spaces.- 2.3 Flows.- 2.4 Tensors.- 2.5 Differentiation.- 2.6 Integrals.- 3 Hamiltonian Systems.- 3.1 Canonical Transformations.- 3.2 Hamilton's Equations.- 3.3 Constants of Motion.- 3.4 The Limit $t \rightarrow \pm\infty$.- 3.5 Perturbation Theory: Preliminaries.- 3.6 Perturbation Theory: The Iteration.- 4 Nonrelativistic Motion.- 4.1 Free Particles.- 4.2 The Two-Body Problem.- 4.3 The Problem of Two Centers of Force.- 4.4 The Restricted Three-Body Problem.- 4.5 The N-Body Problem.- 5 Relativistic Motion.- 5.1 The Hamiltonian Formulation of the Electrodynamical Equations of Motion.- 5.2 The Constant Field.-...



[Read Classical Mathematical Physics Online](#)



[Download PDF Classical Mathematical Physics](#)

See Also



[PDF] Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)

Follow the link beneath to read "Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" PDF document.

[Read ePub »](#)



[PDF] Sarah's New World: The Mayflower Adventure 1620 (Sisters in Time Series 1)

Follow the link beneath to read "Sarah's New World: The Mayflower Adventure 1620 (Sisters in Time Series 1)" PDF document.

[Read ePub »](#)



[PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

Follow the link beneath to read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" PDF document.

[Read ePub »](#)



[PDF] The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3

Follow the link beneath to read "The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3" PDF document.

[Read ePub »](#)



[PDF] Read Write Inc. Phonics: Pink Set 3 Non-Fiction 1 Jay s Clay Pot

Follow the link beneath to read "Read Write Inc. Phonics: Pink Set 3 Non-Fiction 1 Jay s Clay Pot" PDF document.

[Read ePub »](#)



[PDF] JA] early childhood parenting :1-4 Genuine Special(Chinese Edition)

Follow the link beneath to read "JA] early childhood parenting :1-4 Genuine Special(Chinese Edition)" PDF document.

[Read ePub »](#)