

Theoretical Mechanics For Particles And Continua

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Particles and Nuclei
Transactions On the various Forces of Nature and their relations to each other ...
Edited by W. Crookes, ... With illustrations
Mineralogical Magazine and Journal of the Mineralogical Society
The Medical circular [afterw.] The London medical press & circular [afterw.]
The Medical press & circular Report of an International Conference on Fundamental Particles and Low Temperatures
Previews of Heat and Mass Transfer
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Mining Institute of Scotland
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Physical Society (Great Britain)
William Braithwaite
South African Institute of Mining and Metallurgy
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this second open access volume of the handbook series deals with detectors large experimental facilities and data handling both for accelerator and non accelerator based experiments it also covers applications in medicine and life sciences a joint cern springer initiative the particle physics reference library provides revised and updated contributions based on previously published material in the well known landolt boernstein series on particle physics accelerators and detectors volumes 21a b1 b2 c which took stock of the field approximately one decade ago central to this new initiative is publication under full open access

the book provides theoretical and phenomenological insights on the structure of matter presenting concepts and features of elementary particle physics and fundamental aspects of nuclear physics starting with the basics nomenclature classification acceleration techniques detection of elementary particles the properties of fundamental interactions electromagnetic weak and strong are introduced with a mathematical formalism suited to undergraduate students some experimental results the discovery of neutral currents and of the w and z_0 bosons the quark structure observed using deep inelastic scattering experiments show the necessity of an evolution of the formalism this motivates a more detailed description of the weak and strong interactions of the standard model of the microcosm with its experimental tests and of the higgs mechanism the open problems in the standard model of the microcosm and macrocosm are presented at the end of the book for example the cp violation currently measured does not explain the matter antimatter asymmetry of the observable universe the neutrino oscillations and the estimated amount of cosmological dark matter seem to require new physics beyond the standard model a list of other introductory texts work reviews and some specialized publications is reported in the bibliography translation from the italian language edition particelle e interazioni fondamentali by sylvie braibant giorgio giacomelli and maurizio spurio copyright springer verlag italia 2009 springer verlag italia is part of springer science business media all rights reserved

to cope with modern developments especially in nuclear physics research this textbook

presents nuclear and particle physics from a unifying point of view the first part analysis is devoted to disentangling the substructure of matter the second part synthesis shows how the elementary particles may be combined to build hadrons and nuclei a section on neutrino oscillations and one on nuclear matter at high temperatures bridge the field of nuclear and particle physics and modern astrophysics and cosmology new developments are also covered this concise text has become a standard reference for advanced and undergraduate courses

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