Spinor and Non-Euclidean Tensor Calculus with Applications

Beju, I.

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Spinor And Non Euclidean Tensor Calculus With Applications

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Teodorescu, Ileana Toma

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Mechanical Systems, Classical Models Petre P. Teodorescu,2009-09-30 All phenomena in nature are characterized by motion Mechanics deals with the objective laws of mechanical motion of bodies the simplest form of motion In the study of a

science of nature mathematics plays an important r le Mechanics is the first science of nature which has been expressed in terms of mathematics by considering various mathematical models associated to phenomena of the surrounding nature Thus its development was influenced by the use of a strong mathematical tool As it was already seen in the first two volumes of the present book its guideline is precisely the mathematical model of mechanics The classical models which we refer to are in fact models based on the Newtonian model of mechanics that is on its five principles i e the inertia the forces action the action and reaction the independence of the forces action and the initial conditions principle respectively Other models e g the model of attraction forces between the particles of a discrete mechanical system are part of the considered Newtonian model Kepler's laws brilliantly verify this model in case of velocities much smaller then the light velocity in vacuum

Continuum Mechanics Through the Twentieth Century Gerard A Maugin, 2013-04-08 This overview of the development of continuum mechanics throughout the twentieth century is unique and ambitious Utilizing a historical perspective it combines an exposition on the technical progress made in the field and a marked interest in the role played by remarkable individuals and scientific schools and institutions on a rapidly evolving social background It underlines the newly raised technical questions and their answers and the ongoing reflections on the bases of continuum mechanics associated or in competition with other branches of the physical sciences including thermodynamics. The emphasis is placed on the development of a more realistic modeling of deformable solids and the exploitation of new mathematical tools The book presents a balanced appraisal of advances made in various parts of the world The author contributes his technical expertise personal recollections and international experience to this general overview which is very informative albeit concise Analele Universitătii București, 1983 Current Engineering Practice ,1984 The Matrix and Tensor Quarterly, 1982 Non-Euclidean Geometry Roberto Bonola, 1955-01-01 Examines various attempts to prove Euclid's parallel postulate by the Greeks Arabs and Renaissance mathematicians Ranging through the 17th 18th and 19th centuries it considers forerunners and founders such as Saccheri Lambert Legendre W Bolyai Gauss Schweikart Taurinus J Bolyai and Lobachewsky Includes 181 diagrams

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