



DOWNLOAD



Nonlinear Mechanics: A Supplement to Theoretical Mechanics of Particles and Continua

By Alexander L. Fetter

Dover Publications. Paperback. Book Condition: New. Paperback. 160 pages. Dimensions: 9.1in. x 6.0in. x 0.4in. In their prior Dover book, *Theoretical Mechanics of Particles and Continua*, Alexander L. Fetter and John Dirk Walecka provided a lucid and self-contained account of classical mechanics, together with appropriate mathematical methods. This supplement and an update of that volume offers a bridge to contemporary mechanics. The original books focus on continuum mechanics with chapters on sound waves in fluids, surface waves on fluids, heat conduction, and viscous fluids forms the basis for this supplement's discussion of nonlinear continuous systems. Topics include linearized stability analysis; a detailed examination of the Rayleigh-Bénard problem, from its formulation to issues of linearized theory of convective instability and expansion in Fourier modes; and the direct derivation of Lorenz equations for simple physical configuration. The first half of the original text deals with particle mechanics, and this supplement returns to the study of systems with a finite number of degrees of freedom. A concluding section presents a series of problems that reinforce the supplement's teachings. This item ships from multiple locations. Your book may arrive from Roseburg, OR, or La Vergne, TN. Paperback.



READ ONLINE
[7.38 MB]

Reviews

This sort of publication is everything and made me seeking forward and much more. Better then never, though i am quite late in start reading this one. I am easily could possibly get a delight of reading through a created pdf.

-- **Quinton Balistreri**

A really amazing ebook with lucid and perfect answers. I am quite late in start reading this one, but better then never. You are going to like the way the blogger write this pdf.

-- **Prof. Bertram Ullrich Jr.**