Nonlinear Physics with Mathematica for Scientists and Engineers

By Richard H. Enns

Springer Basel AG Jul 2001, 2001. Sonstige Video. Book Condition: Neu. 261x184x43 mm. Neuware - Nonlinear physics continues to be an area of dynamic modern research, with applications to physics, engineering, chemistry, mathematics, computer science, biology, medicine and economics. In this text extensive use is made of the Mathematica computer algebra system. No prior knowledge of Mathematica or programming is assumed. This book includes 33 experimental activities that are designed to deepen and broaden the reader's understanding of nonlinear physics. These activities are correlated with Part I, the theoretical framework of the text. Additional features: User-friendly, accessible presentation integrating theory, experiments, and the provided Mathematica notebooks; as the concepts of nonlinear science are developed, readers are gently introduced to Mathematica as an auxiliary tool Notebooks designed to make use of Mathematica's sound capability Mathematica notebook using the EulerEquation command incorporated into the text This work is an excellent text for undergraduate and graduate students as well as a useful resource for working scientists. Reviewer comments on the Maple edition of NONLINEAR PHYSICS: 'An.excellent book.the authors have been able to cover an extraordinary range of topics and hopefully excite a wide audience to investigate nonlinear phenomena.accessible to advanced undergraduates and yet...

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