



Mathematical Structures of Nonlinear Science: An Introduction

By Melvyn S. Berger

Springer. Paperback. Book Condition: New. Paperback. 430 pages. Dimensions: 9.2in. x 6.1in. x 1.0in. This is the first volume of a series of books that will describe current advances and past accomplishments of mathematical aspects of nonlinear science taken in the broadest contexts. This subject has been studied for hundreds of years, yet it is the topic in which a number of outstanding discoveries have been made in the past two decades. Clearly, this trend will continue. In fact, we believe some of the great scientific problems in this area will be clarified and perhaps resolved. One of the reasons for this development is the emerging new mathematical ideas of nonlinear science. It is clear that by looking at the mathematical structures themselves that underlie experiment and observation that new vistas of conceptual thinking lie at the foundation of the unexplored area in this field. To speak of specific examples, one notes that the whole area of bifurcation was rarely talked about in the early parts of this century, even though it was discussed mathematically by Poincaré at the end of the nineteenth century. In another direction, turbulence...



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