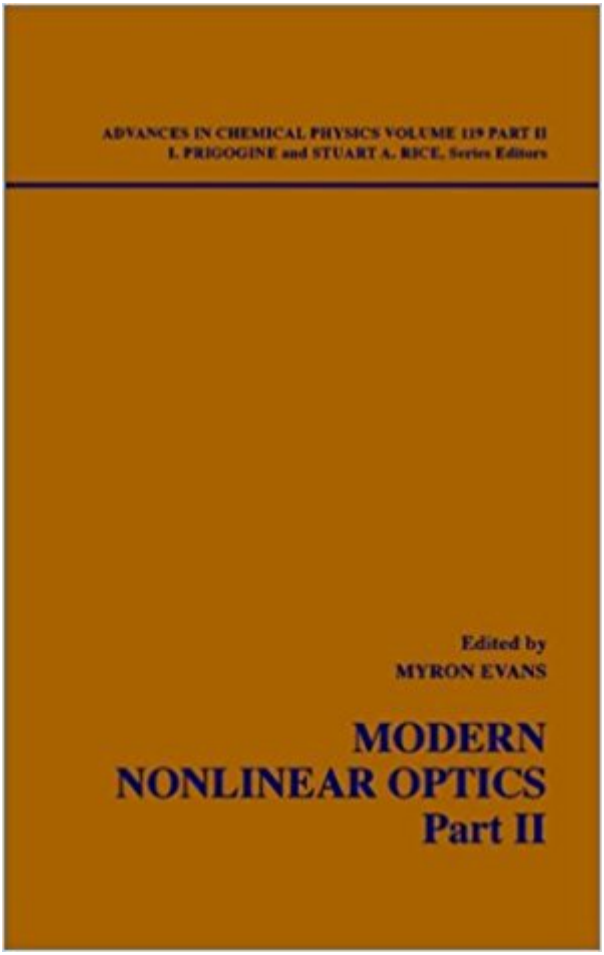
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Synopsis

The new edition will provide the sole comprehensive resource available for non-linear optics, including detailed descriptions of the advances over the last decade from world-renowned experts.

Book Information

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Customer Reviews

This book is a difficult read and is obviously not aimed at the layman, as can be seen from the price. However, since it is not only a stand alone book, but also qualifies as a ground breaking volume in the Advances in Chemical Physics Series, its main audience, serious chemical physicists around the world in major scientific institutions and universities, will be able to access this book from their libraries.A landmark in publishing and science, Advances in Chemical Physics is an international forum for the review and critical evaluation of the science that has propelled every area of the discipline. Each volume contains discussions of aspects of the state of diverse subjects in chemical physics and related fields, with chapters written by top researchers in the field from around the world.The series now comprises more than 130 volumes covering the period from the mid 1960's to the present. Collectively, they represent the history of modern chemical physics. Discussions of all areas of chemical physics, with extensions to biophysics and soft matter physics can be found in these volumes.Edited by such eminent scientists as Nobel Laureate Ilya Prigogine and National Medal of Science Winner Stuart Rice, this series has played a key role in defining the field. This book, published in 2001, is part II of the three books, which comprise Volume 119 and is Edited by Myron Evans, Britain's only scientist on the Civil List and brings together experts in the highly

specialized field of non-linear optics to give the reader the benefit of their knowledge of the latest research in this area of chemical physics.This book reports the problems with aspects of electrodynamics that the prevailing theories struggle to explain and outlines attempts to take our understanding of light past its current limits. The simplest and most powerful challenge to the paradigm prevailing in 2001, was its inability to explain certain interferometric and simple optical effects. This book is somewhat dated and theories have moved on since 2001, but this book gives a snapshot of our understanding of the nature of light from the viewpoint of chemical physics at that time. It is a difficult book for the non-specialist and contains much mathematics in its descriptions, but it has value in showing how general relativity was being applied to the problem of light.The book has historical value, in that in the next couple of years after its publication, theories advanced rapidly, so the book marks the time just before pieces of the electrodynamic jig-saw came together to improve our understanding of the nature of light and the enigmatic photon.

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