

1. Record Nr.	UNINA9910143178103321
Titolo	Advances in chemical physics . Volume 119 Part 3,Modern nonlinear optics [[electronic resource] /] / edited by Myron W. Evans
Pubbl/distr/stampa	New York, : J. Wiley, c2001
ISBN	1-280-36777-6 9786610367771 0-470-35599-9 0-471-46611-5 0-471-23149-5
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (804 p.)
Collana	Advances in chemical physics, , 0065-2385 ; ; v. 119
Altri autori (Persone)	EvansMyron W <1950-> (Myron Wyn)
Disciplina	535.2 541.3 541.305 541/08
Soggetti	Chemistry, Physical and theoretical Chemistry Nonlinear optics Quantum optics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	MODERN NONLINEAR OPTICS Part 3 Second Edition ADVANCES IN CHEMICAL PHYSICS VOLUME 119; CONTRIBUTORS TO VOLUME 119 Part 3; INTRODUCTION; PREFACE; CONTENTS; THE PRESENT STATUS OF THE QUANTUM THEORY OF LIGHT; TOPOLOGICAL ELECTROMAGNETISM WITH HIDDEN NONLINEARITY; ELLIPSOIDS IN HOLOGRAPHY AND RELATIVITY; ASTROPHYSICS IN THE DARK: MACH'S PRINCIPLE LIGHTS THE WAY; A SEMICLASSICAL MODEL OF THE PHOTON BASED ON OBJECTIVE REALITY AND CONTAINING LONGITUDINAL FIELD COMPONENTS; SIGNIFICANCE OF THE SAGNAC EFFECT: BEYOND THE CONTEMPORARY PHYSICS; NON-ABELIAN ELECTRODYNAMICS: PROGRESS AND PROBLEMS

FLUCTUATIONAL ESCAPE AND RELATED PHENOMENA IN NONLINEAR  
OPTICAL SYSTEMS  
BELTRAMI VECTOR FIELDS IN ELECTRODYNAMICS-A  
REASON FOR REEXAMINING THE STRUCTURAL FOUNDATIONS OF  
CLASSICAL FIELD PHYSICS?; CONSTANCY OF VELOCITY OF LIGHT AND  
STOCHASTIC BACKGROUND; ENERGY FOR THE FUTURE: HIGH-DENSITY  
CHARGE CLUSTERS; THE SUPERLUMINAL THEORY AND EFFECTS;  
SUPERLUMINAL EFFECTS AND TACHYON THEORY; TOPOLOGICAL  
APPROACHES TO ELECTROMAGNETISM; AUTHOR INDEX; SUBJECT INDEX

**Sommario/riassunto**

Significant advances have occurred in the field since the previous edition, including advances in light squeezing, single photon optics, phase conjugation, and laser technology. The laser is essentially responsible for nonlinear effects and is extensively used in all branches of science, industry, and medicine.