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Titolo	Advanced electromagnetism and vacuum physics [[electronic resource] /] / Patrick Cornille
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Descrizione fisica	1 online resource (794 p.)
Collana	World Scientific series in contemporary chemical physics ; ; v. 21
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Soggetti	Electromagnetic theory - Mathematics Electromagnetic waves - Transmission Vacuum Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 723-757) and index.
Nota di contenuto	CONTENTS ; PREFACE ; 1 INTRODUCTION AND SURVEY ; 2 WAVE MEANING OF THE SPECIAL RELATIVITY THEORY ; 2-1 Critical Review of the Interpretation of Special Relativity ; 2-2 Calculation of the Rectilinear Accelerated Motion of a Particle ; 2-3 Analysis of the Lorentz-Poincare Transformation 2-3-1 Constant Acceleration Motion 2-3-2 Constant Velocity Motion ; 2-4 Wave Meaning of the Lorentz-Poincare Transformation ; 2-5 Length Contraction and Time Dilation of a Moving Body ; 2-6 Comparison Between Elbaz and De Broglie Approaches 2-7 Different Meanings of the Lorentz-Poincare Transformation 2-8 The Concept of Simultaneity ; 2-9 Definition of Eulerian and Lagrangian Coordinates ; 2-9-1 Path Vector Definition ; 2-9-2 Lagrangian Definition ; 2-9-3 Eulerian Definition ; 2-9-4 Moving Grid Definition 2-9-5 Special Relativity Definition 3 CHANGE OF REFERENCE FRAME ; 3-1 Change of Reference

Frame without Rotation ; 3-2 Change
of Reference Frame with Rotation ; 3-
2-1 Calculation of Positions in a Change of Reference Frame
; 3-2-2 Invariance of Distances in a Change of Reference Frame
3-2-3 Calculation of Velocities in a Change of Reference Frame
3-2-4 Calculation of Accelerations in a Change of Reference Frame
; 3-2-5 Derivative of a Vector in a Rotating Reference Frame
; 3-2-6 Equivalence Between the Lorentz Force and Non-inertial Terms
3-2-7 Calculation of the Stress and Rotation Dyads in a Change of
Reference Frame

Sommario/riassunto

This book is aimed at a large audience: scientists, engineers, professors and students wise enough to keep a critical stance whenever confronted with the chilling dogmas of contemporary physics. Readers will find a tantalizing amount of material calculated to nurture their thoughts and arouse their suspicion, to some degree at least, on the so-called validity of today's most celebrated physical theories.

Contents:

- Wave Meaning of the Special Relativity Theory
- Change of Reference Frame
- Relativistic and Classical Mechanics
- Experimental Tests of Special

2. Record Nr.	UNISALENTO991001703849707536
Autore	Giocoli Nacci, Paolo
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Pubbl/distr/stampa	Torino : G. Giappichelli, [1995]
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