1. Record Nr. UNINA9910139003003321

Titolo	Non-diffractive waves / / edited by Hugo E. Hernandez-Figueroa, Erasmo Recami, and Michel Zamboni-Rached
Pubbl/distr/stampa	Weinheim : , : Wiley-VCH, , [2014] ©2014
ISBN	3-527-67153-6 3-527-67151-X 3-527-67154-4
Descrizione fisica	1 online resource (509 p.)
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Disciplina	532.0593
Soggetti	Localized waves - Research Waves - Research
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 index.
Nota di contenuto	Non-Diffracting Waves; Title Page; Copyright; Contents; Preface; List of Contributors; Chapter 1 Non-Diffracting Waves: An Introduction; 1.1 A General Introduction; 1.1.1 A Prologue; 1.1.2 Preliminary, and Historical, Remarks; 1.1.3 Definition of Non-Diffracting Wave (NDW); 1.1.4 First Examples; 1.1.5 Further Examples: The Non-Diffracting Solutions; 1.2 Eliminating Any Backward Components: Totally Forward NDW Pulses; 1.2.1 Totally Forward Ideal Superluminal NDW Pulses; 1.3 Totally Forward, Finite-Energy NDW Pulses; 1.3.1 A General Functional Expression for Whatever Totally-Forward NDW Pulses 1.4 Method for the Analytic Description of Truncated Beams1.4.1 The Method; 1.4.2 Application of the Method to a TB Beam; 1.5 Subluminal NDWs (or Bullets); 1.5.1 A First Method for Constructing Physically Acceptable, Subluminal Non-Diffracting Pulses; 1.5.2 Examples; 1.5.3 A Second Method for Constructing Subluminal Non-Diffracting Pulses; 1.6 ``Stationary'' Solutions with Zero-Speed Envelopes: Frozen Waves; 1.6.1 A New Approach to the Frozen Waves; 1.6.2 Frozen Waves in Absorbing Media; 1.6.3 Experimental Production of the Frozen Waves

1.7 On the Role of Special Relativity and of Lorentz Transformations1.8 Non-Axially Symmetric Solutions: The Case of Higher-Order Bessel Beams; 1.9 An Application to Biomedical Optics: NDWs and the GLMT (Generalized Lorenz-Mie Theory); 1.10 Soliton-Like Solutions to the Ordinary Schroedinger Equation within Standard Quantum Mechanics (QM); 1.10.1 Bessel Beams as Non-Diffracting Solutions (NDS) to the Schroedinger Equation; 1.10.2 Exact Non-Diffracting Solutions to the Schroedinger Equation; 1.10.3 A General Exact Localized Solution; 1.11 A Brief Mention of Further Topics
1.11.1 Airy and Airy-Type Waves1.11.2 ``Soliton-Like'' Solutions to the Einstein Equations of General Relativity and Gravitational Waves; 1.11.3 Super-Resolution; Acknowledgments; References; Chapter 2 Localized Waves: Historical and Personal Perspectives; 2.1 The Beginnings: Focused Wave Modes; 2.2 The Initial Surge and Nomenclature; 2.3 Strategic Defense Initiative (SDI) Interest; 2.4 Reflective Moments; 2.5 Controversy and Scrutiny; 2.6 Experiments; 2.7 What's in a Name: Localized Waves; 2.8 Arizona Era; 2.9 Retrospective; Acknowledgments; References
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3.4.2 Optical Micromanipulation with Propagation Invariant Fields

Sommario/riassunto

This continuation and extension of the successful book ""Localized Waves"" by the same editors brings together leading researchers in non-diffractive waves to cover the most important results in their field and as such is the first to present the current state.The well-balanced presentation of theory and experiments guides readers through the background of different types of non-diffractive waves, their generation, propagation, and possible applications. The authors include a historical account of the development of the field, and cover different types of non-diffractive waves, including A

2. Record Nr. UNISA996389061203316

Autore	John, of Garland, <ca. 1195-ca. 1272.>
Titolo	Multo[rum] vocabuloru[m] equiuocoru[m] intepretatio, Magistri Ioha[n] nis de Garlandia grammatico [et] latini cupido p[er]maxime necessaria, incipit [[electronic resource]]
Pubbl/distr/stampa	[London, : Printed by Richard Pynson, 8 October 1496]
Descrizione fisica	[148] p
Soggetti	Latin language - Semantics
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Colophon reads: Libro .. finis impositus est feliciter. que[m] Richardus pynson, extra Berram noui templi, LondonÌ mora[n]s, mira arte imprimi, ac diligenti studio corrigi, orthographicq[ue] stilo, put facultas suppetebat, enucleatumq[ue] sollicitus fuit. Anno christine redempt[i] onis. Millesimoquadringentesimo nonagesimo sexto. Die octaua octobris. Signatures: A-K6 L4. Reproduction of the original in the Bodleian Library.
Sommario/riassunto	eebo-0014