

1.	Record Nr.	UNICAMPANIAVAN00039606
	Autore	Manzoni, Alessandro <1785-1873>
	Titolo	2: I promessi sposi / Alessandro Manzoni ; saggio introduttivo, revisione del testo critico e commento a cura di Salvatore Silvano Nigro ; collaborazione di Ermanno Paccagnini per la Storia della colonna infame
	ISBN	88-04-50417-X
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9911019229103321
	Autore	Katsenelenbaum B. Z (Boris Zakharovich)
	Titolo	Electromagnetic fields : restrictions and approximation / / Boris Z. Katsenelenbaum
	Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2003
	ISBN	9786612372285 9781282372283 1282372289 9783527602568 3527602569 9783527622085 352762208X
	Descrizione fisica	1 online resource (238 p.)
	Disciplina	530.141
	Soggetti	Electromagnetic fields - Measurement
	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	Electromagnetic Fields - Restrictions and Approximation; Preface; Contents; 1 Introduction; 1.1 Introduction; 1.2 Subject and Method of

Investigation; 1.3 Realizability, Approximability, Amplitude
 Approximability; 1.4 Outline of the Book; 2 Nonapproximability of
 Patterns; 2.1 Nonapproximability and Zero Lines of the Real Wave Field;
 2.2 Examples of Specific Lines. "Prohibited" Antenna Shapes; 2.3
 Amplitude Nonapproximability; 2.4 Probabilistic Description of Body
 Shape by the Likeness Principle; 2.5 Body Shape Reconstruction by its
 Scattered Patterns; 2.6 Properties of Specific Lines
 3 Nonapproximability of Near Fields3.1 Approximability Condition for
 Near Fields; 3.2 Construction of a Field by its Zero Line. Case of the
 Circle Arc; 3.3 Analytical Extension of the Eigenoscillation Field outside
 the Boundary of the Domain; 4 The Norm of the Current; 4.1 The
 Minimal Current Norm at a Given Accuracy of Approximation; 4.2
 Generalized Functions of Double Orthogonality. Nonapproximability
 and Existence of Nonradiating Currents; 4.3 Optimal Current Synthesis.
 The General Case; 4.4 Domain of Specific Line Influence; 5
 Electromagnetic Field. The Maxwell Equations
 5.1 Trivial Generalizations5.2 Properties of Specific Surfaces; 6 Long
 Narrow Beam of Electromagnetic Waves; 6.1 Two-dimensional Fourier
 Transformation; 6.2 Transmission of Field by Wave Beam: Possibilities
 and Restrictions; 6.3 Shape of Antenna and Rectenna; Bibliography for
 Chapters 1-6; Appendix Antenna Synthesis by Amplitude Radiation
 Pattern and Modified Phase Problem (by N. N. Voitovich); A.1 Synthesis
 of Antennas by Amplitude Radiation Pattern; A.1.1 Introduction; A.1.2
 Problem formulation for the curvilinear antenna; A.1.3 Reducing to the
 Lagrange-Euler equation
 A.1.4 Case of linear antenna. Main properties of solutionsA.2 Modified
 Phase Problem. Continuous Case; A.2.1 Modified phase problem and
 related mathematical and physical problems; A.2.2 Analytical solutions
 to the Lagrange-Euler equation for linear antenna. Theoretical results;
 A.2.3 Solution branching; A.2.4 Numerical example. Problem with
 symmetrical data; A.2.5 Problems with nonsymmetrical data; A.3
 Modified Phase Problem. Discrete Case; A.3.1 Problem formulation for
 linear antenna array. Lagrange-Euler equations; A.3.2 Theoretical
 results; A.3.3 Numerical results
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Sommario/riassunto

The fields scattered by metallic bodies or radiated by some types of antennas are created by the surfaces currents and therefore they are subject to some restrictions. The book is the first one where the properties of these fields are investigated in details. The properties have the important significance for the antenna synthesis, body shape reconstruction and other diffraction problems. The material of the book lies in the meetingpoint of the antenna theory, highfrequency electrodynamics and inverse scattering problems. The author is an internationally renowned investigator in the field o
