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Nota di contenuto	Preface. -- 1. INTRODUCTION. -- 1.1 Electrical sources and fundamental quantities. -- 1.2 Static and dynamic fields. -- 1.3 Working with complex numbers and functions. -- 2. VECTORS AND FIELDS. -- 2.1 Working with vectors. -- 2.2 Coordinate systems. -- 2.3 Differentiation and integration of vectors. -- 2.4 Gradient of the scalar field and its applications. -- 2.5 Divergence of the vector field and its applications. -- 2.6 Curl of the vector field and its applications. -- 2.7 The divergence theorem. -- 2.8 Stokes' theorem. -- 2.9 Other operations involving -- 2.10 Helmholtz theorem. -- 3. BASIC LAWS OF ELECTROMAGNETICS. -- 3.1 Maxwell's equations in large scale/integral form. -- 3.2 Maxwell's equations in point/differential form. -- 3.3 Constitutive relations. -- 3.4 Boundary conditions. -- 3.5 Lorentz force equation. -- 3.6 Poynting vector and power flow. -- 4. UNIFORM PLANE WAVES. -- 4.1 The wave equation and uniform plane wave solutions. -- 4.2 Plane electromagnetic waves in Lossy media. -- 4.3 Uniform plane wave incident normally on an interface. -- 4.4 Uniform plane wave incident obliquely on an interface. -- 5. TRANSMISSION LINES. -- 5.1

Transmission line equations. -- 5.2 Finite length transmission line. -- 5.3 Smith chart. -- 5.4 Transients on transmission lines. -- 6. MODIFIED MAXWELL'S EQUATIONS AND POTENTIAL FUNCTIONS. -- 6.1 Magnetic charge and current. -- 6.2 Magnetic vector and electric scalar potentials. -- 6.3 Electric vector and magnetic scalar potentials. -- 6.4 Construction of solution in rectangular coordinates. -- 6.5 Construction of solution in cylindrical coordinates. -- 6.6 Construction of solution in spherical coordinates. -- 7. SOURCE IN INFINITE SPACE. -- 7.1 Fields of an infinitesimal source. -- 7.2 Antenna parameters. -- 7.3 Linear antennas. -- 7.4 Antenna arrays. -- 7.5 Friis transmission formula and the radar range equation. -- 8. ELECTROSTATIC FIELDS. -- 8.1 Laws of electrostatic fields. -- 8.2 Gauss' law. -- 8.3 Poisson's and Laplace's equations. 8.4 Capacitors and energy storage. -- 8.5 Further applications of Poisson's and Laplace's equations. -- 9. MAGNETOSTATIC FIELDS. -- 9.1 Laws of magnetostatic fields. -- 9.2 Inductors and energy storage. -- 9.3 Magnetic materials. -- 9.4 Magnetic Circuits. -- 10. WAVEGUIDES AND CAVITY RESONATORS. -- 10. 1 Metallic rectangular waveguide. -- 10. 2 Metallic circular cylindrical waveguide. -- 10.3 Rectangular cavity resonators. -- 10.4 Circular cylindrical cavity resonators. -- 11. NUMERICAL TECHNIQUES. -- 11.1 Finite difference methods. -- 11.2 The method of moments. -- 11.3 Scattering of plane EM waves from an infinitely long cylinder. -- Appendix A. Mathematical formulas. -- Appendix B. Delta function and evaluation of fields in unbounded media. -- Appendix C. Bessel functions. -- Appendix D. Legendre functions. -- Appendix E. Characteristics of selected materials. -- Appendix F. Physical constants. -- Appendix G. Decibels and Neper. -- Appendix H. Nomenclature and characteristics of standard rectangular waveguides. -- SELECTED REFERENCE BOOKS . -- Index.

Sommario/riassunto

The fifth edition of Grounding and Shielding has been revised throughout. Material has been added on transmission lines, radiation and printed circuit design, all of which are of great current interest because of the smaller dimensions of electronic devices.

2. Record Nr.	UNINA9910812426003321
Titolo	Anterior segment optical coherence tomography // Roger F. Steinert, David Huang
Pubbl/distr/stampa	Thorofare, New Jersey : , : SLACK, , [2008] ©2008
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Disciplina	617.7/0757
Soggetti	Anterior segment (Eye) - Tomography Optical coherence tomography
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	Physics and fundamentals of anterior segment optical coherence tomography / David Huang and Joseph A. Izatt -- Keratoconus screening / Yan Li and David Huang -- Evaluation of LASIK flaps / Roger F. Steinert and Amin Ashrafzadeh -- Medical evaluation, management, and planning anterior lamellar surgery for corneal and anterior segment conditions / Leejee H. Suh, Sonal B. Dave, and William W. Culbertson -- Penetrating and posterior lamellar keratoplasty / Roger F. Steinert and Matthew H. Kim -- Corneal opacities / Jonathan C. Song and David Huang -- Refractive corneal implants / Marjan Farid and Roger F. Steinert -- Intacs intracorneal ring segments / Maolong Tang and David Huang -- Utilization of visante OCT for glaucoma evaluations / Iqbal Ike K. Ahmed and Richard C.H. Lee -- Quantitative measurement of the anterior chamber angle with optical coherence tomography / Sunita Radhakrishnan, Yan Li, and David Huang -- Safety criteria for phakic intraocular lens implantation based on anterior segment optical coherence tomography biometry / Georges Baikoff -- Optical coherence tomography for anterior segment tumors / Werner Wackernagel ... [et al.] -- Measurement of accommodation / Georges Baikoff -- Intraocular lenses and cataracts / Roger F. Steinert, Iqbal Ike K. Ahmed and Richard C.H. Lee -- Profile of clear corneal cataract incisions as demonstrated by ocular coherence tomography / I. Howard

Fine, Richard S. Hoffman, and Mark Packer -- Future direction of anterior segment ocular coherence tomography / David Huang ... [et al.].
