1. **Record Nr.**   UNISALENTO991000386169707536

Autore	Ruzsa, Imre Z.
Titolo	Algebraic probability theory / Imre Z. Ruzsa, Gabor J. Szekely
Pubbl/distr/stampa	Chichester [etc.] : Wiley, c1988
ISBN	0471918032
Descrizione fisica	xii, 252 p. ; 23 cm
Altri autori (Persone)	Szekely, Gabor J
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Soggetti	Algebra
	Probabilità
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. **Record Nr.**   UNINA9910139806103321

Titolo	Light Scattering from Microstructures : Lectures of the Summer School of Laredo, University of Cantabria, Held at Laredo, Spain, Sept.11-13, 1998 / / edited by Fernando Moreno, Francisco Gonzales
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2000
ISBN	3-540-46614-2
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Descrizione fisica	1 online resource (XII, 300 p. 121 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 534
Disciplina	535.43
Soggetti	Nanotechnology
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	Spectrum analysis
	Microscopy
	Physics
	Solid State Physics
	Spectroscopy and Microscopy
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Formato	Materiale a stampa
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Light scattering by submicron spherical particles on semiconductor surfaces -- to Light Scattering from Microstructures -- Theory -- Heaviside Operational Calculus and Electromagnetic Image Theory -- Mathematical Methods for Data Inversion -- Mueller Matrices -- Scattering by Particles on Substrates. Numerical Methods -- Light Scattering from a Sphere Near a Plane Interface -- Electromagnetic Scattering by Cylindrical Objects on Generic Planar Substrates: Cylindrical-Wave Approach -- T-Matrix Method for Light Scattering from a Particle on or Near an Infinite Surface -- Scattering of Polarized Light -- Properties of a Polarized Light-Beam Multiply Scattered by a Rayleigh Medium -- Polarization and Depolarization of Light -- Statistics of the Scattered Light -- Polarisation Fluctuations in Light Scattered by Small Particles -- Intensity Statistics of the Light Scattered by Particles on Surfaces -- Applications -- Microstructures in Rough Metal Surfaces: Electromagnetic Mechanism in Surface-Enhanced Raman Spectroscopy -- Light Scattering by Particles and Defects on Surfaces: Semiconductor Wafer Inspection -- From Scattering to Waveguiding: Photonic Crystal Fibres -- The Angular Distribution of Light Emitted by Sonoluminescent Bubbles -- Light Scattering by Regular Particles on Flat Substrates.
Sommario/riassunto	With a tutorial approach, this book covers the most impor- tant aspects of the scattering of electromagnetic radiation from structures (isolated or on a substrate) whose size is comparable to the incident wavelength. Special emphasis is placed on the electromagnetic problem of microstructures lo- cated close to an interface by reviewing the most important numerical methods for calculating the scattered field. The polarization propagation and the statistics of scattered in- tensity in microstructured targets are also presented from a didactic point of view. The final part of the book is dedi- cated to the most significant applications in both basic and applied research: surface enhanced Raman scattering, monito- ring and detection of surface contamination by particles, optical communications, particle sizing and others.