

1. Record Nr.	UNINA9911007281203321
Autore	Muthusamy Ramya
Titolo	Coatings and Films
Pubbl/distr/stampa	Zurich : , : Trans Tech Publications, Limited, , 2023 ©2023
ISBN	3-0364-1439-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (154 pages)
Collana	Solid State Phenomena, , 1662-9779 ; ; Volume 350
Altri autori (Persone)	SengodanThangaprakash AndronovVolodymyr OtroshYurii El MoussaouyAbdelaaziz
Disciplina	667.9
Soggetti	Materials science Protective coatings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Coatings and Films -- Preface -- Table of Contents -- Chapter 1: Coatings and Surface Engineering -- Methods of Structural Engineering of Surface in Solving the Problems of Multifactorial Increase of the Level of Operational Characteristics of Materials -- Selection and Application of the Optimal Surface Engineering Method to Restore the Properties of Rolling Equipment Elements that Have Been Reduced Due to Violations of Surface Grinding Technology -- Methods for Optimizing the Content of VOCs to Create Environmentally Friendly Materials for Protective Coatings -- Numerical Modeling of Critical Velocity and Deformation Behavior in Cold Spray Using Lagrangian and Arbitrary Lagrangian Technique -- Synthesis, Characterization of Chromium Oxide Powders and Coatings -- Surface Hardening of CP Ti by Laser Hardening and Development of Ti/TiC Surface Composite by Laser Sintering Technique for Wear Resistant Surface -- Chapter 2: Thin Films -- Studies on Lead Sulphide (PbS) Thin Film Prepared by Chemical Bath Deposition Method -- Effect of Annealing Temperature Variation on Al-Doped Nickel Oxide Thin-Film Synthesized by Dip-Coating Technique -- A Study on the Inclusion of Higher Dopant Proportion on ZrO <sub>2</sub> Thin Film Deposited by Spray Pyrolysis Method -- An Embedded

System Approach to Design and Development of an Automatic Spin Coating Machine for Thin Film Applications -- Effect of Lanthanum Doping on Properties of ZnS Thin Films for Water Splitting -- Optical Characterization of Semiconducting Thin Films Using UV-VIS-NIR Spectroscopy: A Review -- Chapter 3: Low Dimensional Quantum Structures -- Binding Energy Stark-Shift, Polarizability and Dipole Moment Response of Shallow Donor Impurity in GaAs Quantum Dots -- Donor Atom Properties in 2D Ultra-Thin Cylindrical Quantum Dots. Electronic Localized States Behaviour in a GaAs/GaAlAs Multi-Quantum Wells with a Geo-Material and a Material Defects -- Keyword Index -- Author Index.

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