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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Dedication Page -- Contents -- Preface -- Abbreviations and Symbols -- Acronyms -- Symbols -- Indices -- Exponents -- Greek letters -- Atomic shells and subshells -- Introduction -- Chapter 1 Substrate Preparation -- 1.1 Introduction -- 1.2 Surfaces of Different Types of Substrates (Metals and Alloys, Ceramics, Polymers) -- 1.2.1 Metals and Alloys -- 1.2.2 Ceramics and Glasses -- 1.2.3 Polymers -- 1.3 Cleaning of Surface -- 1.3.1 Chemical Cleaning Methods -- 1.3.2 Physical Cleaning Methods -- 1.3.2.1 Thermal Cleaning -- 1.3.2.2 Particles Cleaning -- 1.3.2.3 Plasma Cleaning -- 1.3.2.4 Ions and Atoms Bombardment -- 1.3.2.5 Ultrasonic Cleaning -- 1.3.2.6 Photons Cleaning -- 1.3.3 Monitoring of Surface
Sommario/riassunto	Comprehensive resource on the subject of deposition techniques for films and coatings and their characterization Physical Deposition Methods for Films and Coatings presents a pedagogical compilation of current knowledge of dry deposition. Written by a renowned and

awarded academic with more than 40 years of experience in the field, Physical Deposition Methods for Films and Coatings covers topics including:

- * The process of making a deposit that appears on the surface, growth of deposits, their post treatments, and characterization methods
- * Different physical and chemical deposition techniques including atomistic, chemical vapor, and various thermal spraying methods
- * Properties of deposits depending on the material and deposition technique
- * Substrate preparation, coating microstructure, and morphology and stability of thin films
- * Examples of applications of thin films in optical devices, environmental applications, telecommunications devices, and energy storage devices

Physical Deposition Methods for Films and Coatings is an essential reference on the subject for professionals and researchers in surface treatment and graduate students in related programs of study.
