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Collana	ISTE
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Soggetti	Nanostructured materials Protective coatings -- Materials Surfaces Protective coatings - Materials Chemical & Materials Engineering Engineering & Applied Sciences Materials Science
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Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Nanomaterials and Surface Engineering; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. Architecture of Thin Solid Films by the GLAD Technique; 1.1. Introduction; 1.2. The GLAD technique; 1.2.1. Deposition with an oblique angle; 1.2.2. Deposition on mobile substrate; 1.3. Resulting properties; 1.3.1. Structure and morphology; 1.3.1.1. Crystallography; 1.3.1.2. Porosity; 1.3.1.3. Surface morphology; 1.3.2. Mechanical properties; 1.3.2.1. Elasticity; 1.3.2.2. Hardness; 1.3.3. Optical properties; 1.3.3.1. Filtering; 1.3.3.2. Birefringency; 1.3.4. Electronic properties 1.3.4.1. Conductivity1.3.4.2. Photonics; 1.4. Conclusions and outlooks; 1.5. Bibliography; Chapter 2. Transparent Polymer Nanocomposites: A New Class of Functional Materials; 2.1. Introduction; 2.2. Nanoparticle

modifications; 2.2.1. Silane; 2.2.1.1. Grafting of silanes; 2.2.1.2. Polymer grafting using grafted silanes; 2.2.1.3. Silane coating; 2.2.2. Grafted polymer; 2.2.2.1. "Grafting onto"; 2.2.2.2. "Grafting from"; 2.2.3. Coating; 2.2.3.1. Silica coating; 2.2.3.2. Polymer coating; 2.3. Nanoparticles and nanocomposites; 2.3.1. Nanoparticles; 2.3.2. Transparent polymers used as matrices
2.3.3. Nanocomposite processing2.3.3.1. Melt blending; 2.3.3.2. Solvent casting techniques; 2.3.3.3. In situ synthesis; 2.3.4. Desired properties; 2.3.4.1. Optical properties; 2.3.4.2. Thermomechanical and mechanical properties; 2.4. Conclusion; 2.5. Bibliography; Chapter 3. Nanostructures by Ion Irradiation; 3.1. Introduction; 3.2. Physical bases; 3.2.1. The slowing down process; 3.2.2. Spatial distribution of damages in collisional regime; 3.2.3. Damaging by electronic slowing down in swift heavy ion tracks; 3.3. Nanostructures produced in ballistic regime; 3.3.1. Implantation
3.3.1.1. Concentration gradients in implantation layers3.3.1.2. Variety of structures obtained by IBS; 3.3.2. Sputtering; 3.3.2.1. Cleaning, roughening of surface for improving the adhesion of coatings; 3.3.2.2. Surface relief induced by the combined effects of erosion and diffusion; 3.3.3. Ion beam assisted deposition (IBAD) and ion beam deposition (IBD) of monoatomic ions or clusters; 3.3.4. Ion beam mixing; 3.3.5. Patterning; 3.4. Nanostructures produced in electronic slowing down regime; 3.4.1. Radiolysis of polymers; 3.4.1.1. Properties of tracks in organic polymers
3.4.1.2. Semi-organic polymers and gels3.4.2. Filters and templates; 3.4.3. Dissolution or growth of particles in composites; 3.4.4. Modification of magnetic properties; 3.5. Conclusions; 3.6. Appendix: basic formula of ion stopping; 3.7. Bibliography; Chapter 4. Microencapsulation; 4.1. Introduction; 4.2. The processes of microencapsulation; 4.2.1. Physico-chemical processes; 4.2.1.1. Coacervation; 4.2.1.2. Evaporation of solvant; 4.2.2. Chemical processes; 4.2.3. Other chemical and physico-chemical methodologies; 4.2.4. Fluidized bed equipment; 4.2.5. Other physical processes
4.3. Kinetics of release

Sommario/riassunto

This book covers a wide range of topics that address the main areas of interest to scientists, engineers, and students concerned with the synthesis, characterization and applications of nanomaterials. Development techniques, properties, and examples of industrial applications are all widely represented as they apply to various nanostructured materials including nanocomposites and multilayered nanometric coatings. It is recommended to anyone working in the field of nanomaterials, especially in connection with the functionalization and engineering of surfaces.

2. Record Nr. UNINA9910252708203321

Autore	Selloni Daniela
Titolo	CoDesign for Public-Interest Services / / by Daniela Selloni
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ISBN	3-319-53243-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXVI, 193 p. 22 illus.)
Collana	Research for Development, , 2198-7300
Disciplina	350.711
Soggetti	Social service Welfare economics Service industries Sustainable development Assessment Social Work and Community Development Social Choice/Welfare Economics/Public Choice/Political Economy Services Sustainable Development Assessment, Testing and Evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Part I Framing the scenario of public-interest services: Citizen activism and social innovation -- New forms of economies: sharing economy, collaborative consumption, peer-to-peer economy -- New forms of welfare: relational welfare, second welfare, co-production -- Design for public-interest services: an emerging field of experimentation -- Part II Experimenting with public-interest services: The ‘Creative Citizens’ experimentation (POLIMI DESIS Lab) -- Comparing ‘Creative Citizens’ with a set of interconnected experimentations. Reflections from the comparative analysis. Part III Infrastructuring public-interest services: Defining a collaborative infrastructure -- Infrastructuring by design -- Expert designer’s role – much more than facilitating -- Codesign for the public interest.
Sommario/riassunto	This books focuses on co-design, and more specifically, on the various

forms co-design might take to tackle the most pressing societal challenges, introducing public-interest services as the main application field. To do so, it presents an extensive study conducted within a particular community of residents in Milan: this is a social innovation story integrated into the discipline of service design, which simultaneously deepens the related concepts of co-design, co-production and co-management of services. Drawing upon this experience and further studies, the book presents the idea of a collaborative infrastructure and its related infrastructuring process in ten steps, in order to explore the issues of incubation and replication of services and to extensively investigate the creation of those experimental spaces in which citizen participation is fostered and innovation in the public realm is pursued. Lastly, the book develops other lines of reflection on co-design seen, for example, as a form of cultural activism, as an instrument for building citizenship, and as a key competence for the public administration and thus as a public service itself. The idea of co-design as a way to regenerate the practices of democracy is a recurring theme throughout the book: co-design is a process that seeks to change the state of things and it is intentionally presented as a long and complex path in which the role of designer is not only that of a facilitator, but also that of a cultural operator who contributes with ideas and visions, hopefully fostering a real cultural change.