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	Titolo	Crystallographic Texture of Materials / / by Satyam Suwas, Ranjit Kumar Ray
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	ISBN	1-4471-6314-1
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	Descrizione fisica	1 online resource (265 p.)
	Collana	Engineering Materials and Processes, , 1619-0181
	Disciplina	548
	Soggetti	Metals
		Mechanics
		Mechanics, Applied
		Structural materials
		Materials—Surfaces
		I hin films
		Materials science
		Motallic Materials
		Solid Mechanics
		Structural Materials
		Surfaces and Interfaces. Thin Films
		Characterization and Evaluation of Materials
		Crystallography and Scattering Methods
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	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Introduction Representation of Texture Experimental determination of textureTexture evolution during solidification and solid state transformation Deformation textures Annealing texture Texture evolution in thin films Textures of non-metals Texture and properties Texture control in some engineering materials.
	Sommario/riassunto	Providing a comprehensive and invaluable overview of the basics of crystallographic textures and their industrial applications, this book covers a broad range of both structural and functional materials. It

introduces the existing methods of representation in an accessible manner and presents a thorough overview of existing knowledge on texture of metallic materials. Texture analysis has widespread use in many industries, and provides crucial input towards the development of new materials and products. There has been rapid growth in the science and art of texture analysis in the last few decades. Other topics addressed within this book include recent research on texture in thin films and non-metals, and the dependence of material properties on texture, and texture control in some engineering materials. This book constitutes an invaluable reference text for researchers and professionals working on texture analysis in metallurgy, materials science and engineering, physics and geology. By using content selectively, it is also highly accessible to undergraduate students.