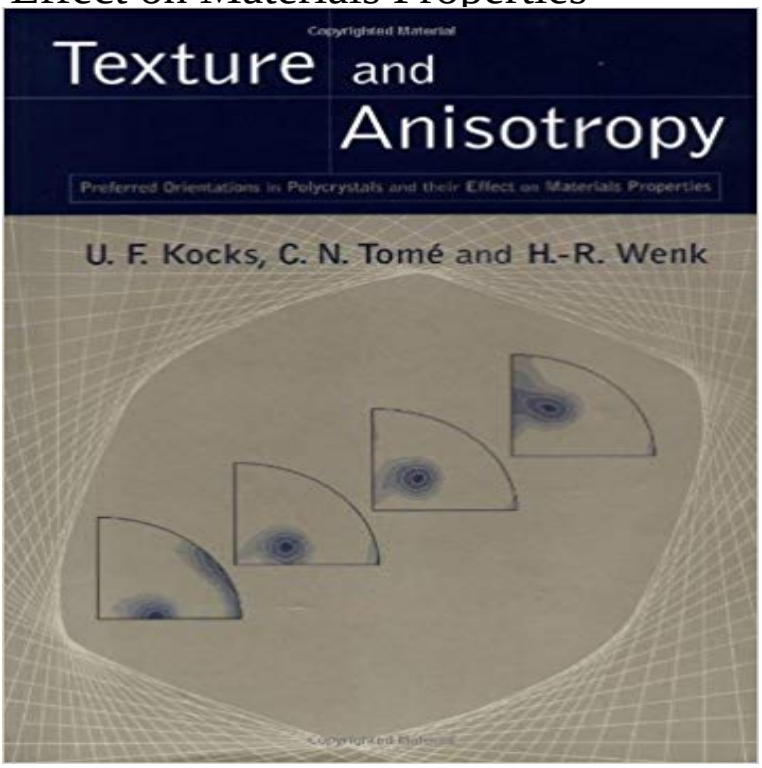
Texture and Anisotropy: Preferred Orientations in Polycrystals and their Effect on Materials Properties



This book provides valuable information for all scientists and engineers interested in materials properties. Coverage discusses the measurement and analysis of textures, the prediction of polycrystal properties from measured textures and known single crystal properties, and the prediction of the development of texture and the ensuing anisotropic properties during elastic and plastic deformation. It also gives an overview of observed textures in metals, ceramics and rocks. There is a balance between theoretical concepts and experimental techniques. The book addresses several issues. Part I provides tools and describes methods to obtain quantitative data on textures of polycrystals. It should be of interest to experimentalists. Part II emphasizes modeling of deformation and incorporates theoretical concepts of mechanics. Part III illustrates successful applications in engineering and earth sciences.

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