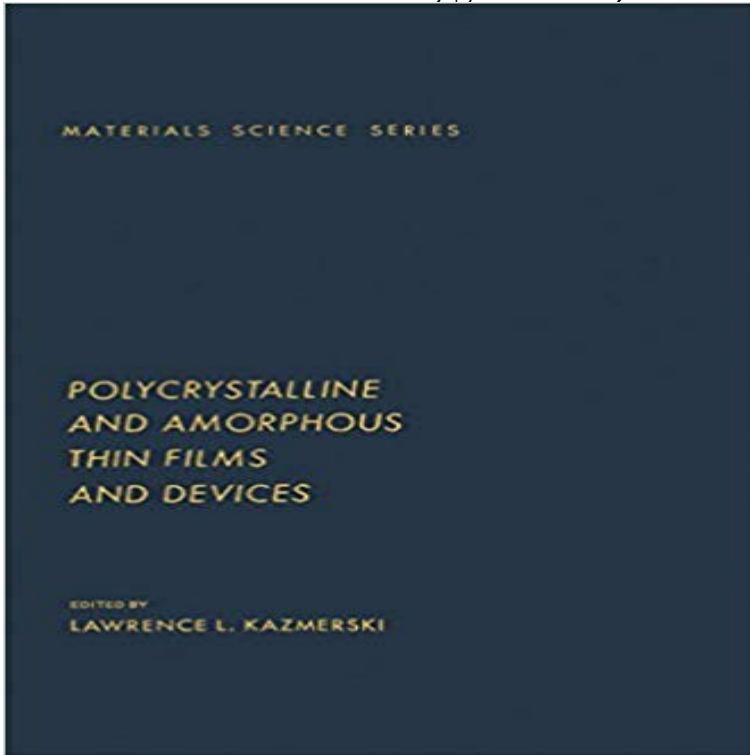


# Polycrystalline And Amorphous Thin Films And Devices (Materials Science and Technology Series)



Polycrystalline and Amorphous Thin Films and Devices is a compilation of papers that discusses the electronic, optical, and physical properties of thin material layers and films. This compilation reviews the different applications of thin films of various materials used as protective and optical coatings, thermal transfer layers, and selective membranes from submicron-area VLSI memory units to large-area energy conservation devices. Some papers discuss the basic properties, such as growth, structure, electrical, and optical mechanisms that are encountered in amorphous and polycrystalline thin semiconductor films. For example, experiments on electronic structure of dislocations have led to a model for the intrinsic properties of grain boundaries in polycrystalline semiconductor thin films that can have an impact on the designs of high-efficiency, thin-film solar cells. Other papers review the problems encountered in these thin layers in active semiconductor devices and passive technologies. Techniques in film growth and control variables of source, substrate temperature, and substrate properties will determine the successful performance of the devices installed with these thin film layers. This compilation can prove valuable for chemists, materials engineers, industrial technologists, and researchers in thin-film technology.

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