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Characteristics of Metal/MCT Interfaces; 16 MCT Superlattices for VLWIR Detectors and Focal Plane Arrays; 17 Dry Plasma Processing of Mercury Cadmium Telluride and Related II-VIs; 18 MCT Photoconductive Infrared Detectors; Part Three - Applications; 19 HgCdTe Photovoltaic Infrared Detectors; 20 Nonequilibrium, Dual-Band and Emission Devices; 21 HgCdTe Electron Avalanche Photodiodes (EAPDs); 22 Room Temperature IR Photodetectors; Index

Sommario/riassunto

Mercury cadmium telluride (MCT) is the third most well-regarded semiconductor after silicon and gallium arsenide and is the material of choice for use in infrared sensing and imaging. The reason for this is that MCT can be 'tuned' to the desired IR wavelength by varying the cadmium concentration. Mercury Cadmium Telluride: Growth, Properties and Applications provides both an introduction for newcomers, and a comprehensive review of this fascinating material. Part One discusses the history and current status of both bulk and epitaxial growth techniques, Part Two is concerned with the w
