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Nota di contenuto	1. Novel Emerging Materials: Introduction and Evolution -- 2. Synthesis and Characterization of Emerging Nanomaterials -- 3. Seeded Crystal Growth of CdZnTe(CDT) Assisted via Numerical Modeling -- 4. Design techniques for high reliability FET by incorporating new materials and electrical/thermal co-optimization -- 5. Recent Advances in Energy Harvesting from Waste Heat using Emergent Thermoelectric Materials -- 6. Challenges and opportunities for Emerging Material Systems -- 7. Emerging Materials for BioSensor Applications in Healthcare -- 8. Emerging Nanostructures in Dental Applications -- 9. Emergent Catalytic Materials Towards CO2 Reduction -- 10. A Brief of Emerging Materials and its Applications in Photovoltaic Applications.
Sommario/riassunto	This book serves as a quick guide on the latest material systems including their synthesis, fabrication and characterization techniques. It discusses recent developments in different material systems and discusses their novel applications in various branches of science and engineering. The book briefs latest computational tools and techniques that are used to discover new material systems. The book also briefs

applications of new emerging materials in various fields including, healthcare, sensors, opto-electronics, high power devices and nano-electronics. This book helps to create a synergy between computational and experimental research methods to better understand a particular material system.
