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Temperature of $\text{La}_{0.67}\text{Ca}_{0.26}\text{Sr}_{0.07}\text{Mn}_{1+x}\text{O}_3$ Used in Magnetic Refrigeration; Preparation of Electrocatalytically Active RuO_2/Ti Electrodes by Pechini Method; The Myriad Structures of Liquid Water: Introduction to the Essential Materials Science; Preparation of CuInS_2 Films by Electrodeposition: Effect of Metal Element Addition to Electrolyte Bath; Preparation of High- J_c MOD-YBCO Films for Fault Current Limiters; NANOTECHNOLOGY FOR POWER GENERATION Modeling of Electromagnetic Wave Propagation of Nano-Structured Fibers for Sensor Applications Increased Functionality of Novel Nano-Porous Fiber Optic Structures through Electroless Copper Deposition and Quantum Dot Solutions; Thermopower Measurements in 1-D Semiconductor Systems; Structural Changes and Stability of Pore Morphologies of a Porous Glass at Elevated Temperatures; Author Index

Sommario/riassunto

This book documents a special collection of articles from a select group of invited prominent scientists from academia, national laboratories and industry who presented their work at the symposia on Energy Materials and Nanotechnology for Power Generation at the 2008 Materials Science and Technology (MS&T'08) conference held in Pittsburgh, PA. These articles represent a summary of the presentations focusing on both the scientific and technological aspects of energy storage, nuclear materials, nano-based sensors, catalysts and devices for applications in power generation, solar energy materials
