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Nota di contenuto	Rational Quartic Spline Interpolation and Its Application in Signal Processing -- A Controller for Natural Gas Fuel Dispenser with Multi-level-pressure Banks -- Power Performance Analysis of Solar Tracking System in UTP -- Artificial Neural Network and Mathematical Modeling of Enhanced Oil Recovery Using Nanoparticles.-Viable Options and Opportunities for Energy Saving in a Distribution System towards Sustainability: Taylor’s University as the Case -- Viable Options and Opportunities for Energy Saving in a Distribution System towards Sustainability: Taylor’s University as the Case -- Construction and Application of Septic B-spline Tensor Product Scheme -- Bayes meets Tikhonov: Understanding Uncertainty within Gaussian Framework for Seismic Inversion.
Sommario/riassunto	This book is a collection of research work conducted by researchers at Centre for Smart Grid Energy Research (CSMER), Institute of Autonomous System, Universiti Teknologi PETRONAS (UTP), and Seismic Modelling and Inversion Group, King Abdullah University of Science and Technology (KAUST), Saudi Arabia. The book covers topics in the field of renewable energy where visualization, artificial neural network and deep learning techniques have been applied to optimize the performance of various applications in energy-related industries. These

examples include a natural gas vehicle (NGV), a single axis and a fixed axis solar tracker, seismic inversion enhanced oil recovery, viability of a PV system and construction of a septic B-spline tensor product scheme. Readers will benefit from these examples, which describe the current trend of energy optimization techniques in renewable energy applications making it a good reference for the researchers and industrial practitioners working in the field of renewable energy and optimization techniques.