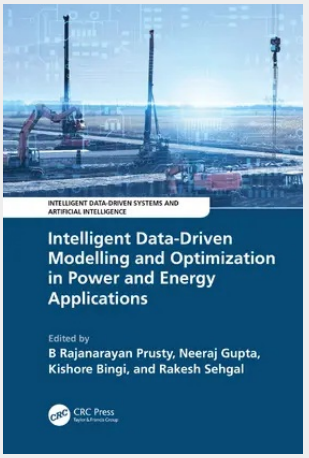
Prusty / Gupta / Bingi

Intelligent Data-Driven Modelling and Optimization in Power and Energy Applications

This book provides a comprehensive understanding of how intelligent data-driven techniques can be used for modelling, controlling, and optimizing various power and energy applications. It aims to develop multiple data-driven models for forecasting renewable energy sources and to interpret the benefits of these techniques in line with first-principles modelling approaches. By doing so, the book aims to stimulate deep insights into computational intelligence approaches in data-driven models and to promote their potential applications in the power and energy sectors. Its key features include: - an exclusive section on essential preprocessing approaches for the data-driven model - a detailed overview of data-driven model applications to power system planning and operational activities - specific focus on developing forecasting models for renewable generations such as solar PV and wind power, and - showcasing the judicious amalgamation of allied mathematical treatments such as optimization and fractional calculus in data-driven model-based frameworks This book presents novel concepts for applying data-driven models, mainly in the power and energy sectors, and is intended for graduate students, industry professionals, research, and academic personnel.



Auf Anfrage

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781032707907
Medium: Buch
ISBN: 978-1-032-70790-7
Verlag: Taylor & Francis
Erscheinungstermin: 21.05.2026
Sprache(n): Englisch
Auflage: 1. Auflage 2026
Serie: Intelligent Data-Driven Systems and Artificial Intelligence
Produktform: Kartoniert
Gewicht: 470 g
Seiten: 252
Format (B x H): 156 x 234 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)