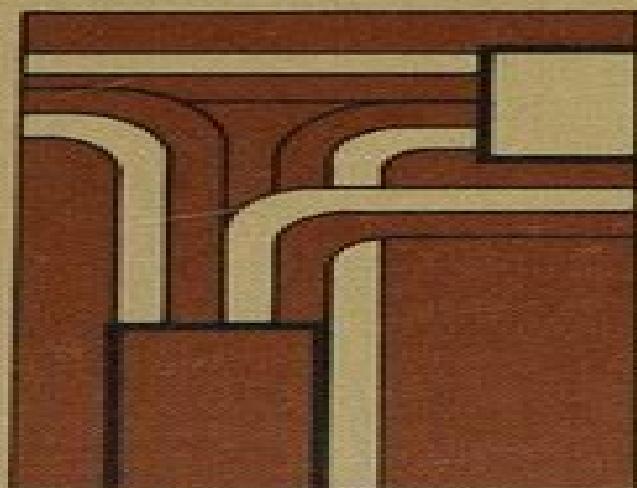


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Smart Power Systems

S. Vijayalakshmi,Lekha J,Lija Jacob,Savita Dahiya,R. Gunavathi,2025-09-26 As the demand for electricity grows the need for efficient and cleaner energy sources becomes increasingly critical This book looks at the world of smart power systems where artificial intelligence AI and the Internet of Things IoT are revolutionizing traditional power grids This book covers a wide range of topics starting with smart grid fundamentals benefits and deployment strategies It explores power system models and the application of AI and IoT in power forecasting and the assembly of smart grids the benefits and limitations of grid automation and the use of machine learning algorithms to identify equipment congestion Efficient power distribution methods with AI IoT and ML based methodologies are explained along with power quality checking smart intelligence based control and intelligent power and energy management as well as the role of blockchain technology in creating smart power systems and their potential impact The book concludes by examining efficient methods for energy price prediction secure e payment solutions fault detection in transmission lines using AI based methods and algorithms and optimized storage systems for energy With practical case studies and real world examples this book will help students researchers and professionals in electrical engineering power systems and renewable energy expand their knowledge and skills in the emerging field of smart power systems and be at the forefront of the energy transition

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