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applied and mult i-disciplinary subject with a focus on Specific, Measurable, Achievable, Realistic & Timely system operations combined with Machine intelligence & Real-Time

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System and Future Internet, Machine Intelligence and Data Science, Real-Time and VLSI Systems, Communication and Automation Systems. The proceedings can be used as an advanced reference for

research and for courses in smart technologies taught at graduate level.

With its comprehensive coverage of the state of the art, this second edition of the book introduces the basic types

of transformers and electric machines and also discusses advanced subjects in electric machines, starting from principles, to applications and case studies with ample graphical

results. The first volume, Electric Machines: Steady State Performance with MATLAB(R) covers circuit modeling characteristics and performance characteristics under steady state, testing techniques and

preliminary elec tromagnetic-thermic dimensioning. This book is intended for first semester course, treating electric transformers, rotary and linear machines steady state modeling and

performance computation, preliminary dimensioning and testing standardized and innovative techniques. The second volume, Electric Machines: Transients, Control Principles,

Finite Element Analysis and Optimal Design with MATLAB(R) is intended for second (and third) semester course, treating topics such as modeling of transients, control principles, electromagnetic

and thermal finite element Analysis and optimal design (dimensioning). Notable recent knowledge with strong industria lization potential has been added to this edition, such as, orthogonal

models of multiphase A.C. machines, thermal finite element analysis of (FEA) electric machines, and FEA- based-only optimal design of a PM motor case study. Both the volumes include

numerical examples and case studies, and numerous computer simulation programs in MATLAB and Simulink(R) are also available online that illustrate performance characteristics

present in the chapters.

This book gathers high-quality research articles and reviews that reflect the latest advances in the smart network-inspired paradigm and address current

issues in IoT applications as well as other emerging areas. Featuring work from both academic and industry researchers, the book provides a concise overview of the current state of the art and highlights

some of the most promising and exciting new ideas and techniques. Accordingly, it offers a valuable resource for senior undergraduate and graduate students, researchers,

policymakers, and IT professionals and providers working in areas that call for state-of-the-art networks and IoT applications.

This book comprises select proceedings of the

International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy,

environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and

management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and

professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for

academics, professionals, and policy makers interested in sustainable development.

This Second Edition extensively covers advanced issues/subjects in electric

machines, starting from principles, to applications and case studies with ample graphical (numerical) results. This textbook is intended for second (and third) semester courses covering

topics such as modeling of transients, control principles, electromagnetic and thermal finite element analysis, and optimal design (dimensioning). Notable recent knowledge with strong industria

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optimal design of a PM motor case study Line start synchronizing premium efficiency PM induction machines Induction machines (three and single phase), synchronous

machines with DC excitation, with PM-excitation, and with magnetically salient rotor and a linear Pm oscillatory motor are all investigated in terms of transients, electromagnetic FEM analysis and

control principles. Case studies, numerical examples, and lots of discussion of FEM results for PMSM and IM are included throughout the book. The optimal design is treated in

detail using Hooke–Jeeves and GA algorithms with case comparison studies in dedicated chapters for IM and PMSM. Numerous computer simulation programs in MATLAB® and

Simulink® are available online that illustrate performance characteristics present in the chapters, and the FEM and optimal design case studies (and codes) may be used as homework to facilitate a

deeper understanding of fundamental issues.

With this revised edition we aim to present a text on Power Electronics for the UG level which will provide a

comprehensive coverage of converters, choppers, inverters and motor drives. All this, with a rich pedagogy to support the conceptual understanding and integral use of PSPICE.

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students

outside electrical and electronics engineering to easily

Ultrasonic irradiation and the associated sonochemical and sonophysical effects are complementary techniques for

driving more efficient chemical reactions and yields. Sonochemistry—the chemical effects and applications of ultrasonic waves—and sustainable (green) chemistry both aim to use less

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