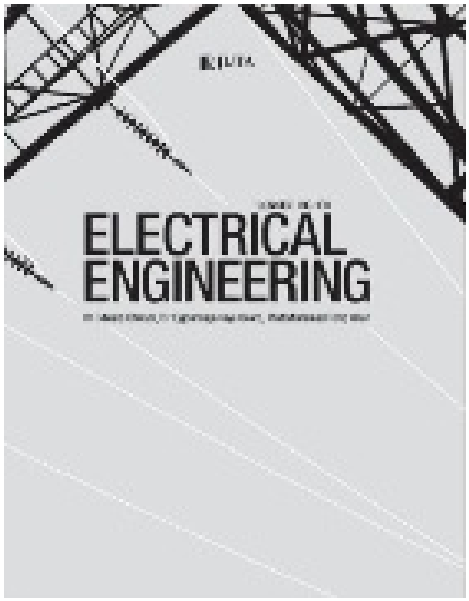
Concise Higher Electrical Engineering



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About this Publication:

Concise Higher Electrical Engineering integrates, in one volume, the most important topics in Electrical Engineering at college or university level. The integrated nature of the book means that the Electrical Engineering student will not have to purchase multiple textbooks in order to cover the entire Electrical Engineering curriculum. The chapter on modelling or power systems compares manual examples with computerised methods. Other chapters in this book include electrical distribution design, illumination and electrical network protection. The chapter on industrial automation includes examples with real programmable controllers. Concise Higher Electrical Engineering includes a large number of examples and exercises. The book contains a wealth of illustration that aids the students understanding of the subject matter. The international contributors to this book are world-acclaimed experts in their fields. The authors bring to the book more than 50 years of combined international industrial experience, ranging from railways and electricity supply to manufacturing.

Contents Include:

- Chapter 1 Engineering Units and Components
- Chapter 2 Electrical and Magnetic Circuit Fundamentals
- Chapter 3 Complex and Alternating Current Circuits and DC Transients
- Chapter 4 Computer Applications
- Chapter 5 Polyphase Circuits
- Chapter 6 DC Machines
- Chapter 7 Transformers
- Chapter 8 Induction Motors
- Chapter 9 Synchronous Machines
- Chapter 10 Reluctance Force Actuators
- Chapter 11 The Per Unit System and Network Applications
- Chapter 12 Modelling and Analysis of Power Systems
- Chapter 13 Symmetrical Components and Unbalanced Networks

- Chapter 17 Protection of Electrical Networks and Plant
- Chapter 18 Electric Drives
- Chapter 19 Essentials of Digital, Analogue and Semiconductor Electronics Technology
- Chapter 20 Industrial Automation and Controls
- Appendix A – Complexors and Phasors
- Appendix B – Introduction
- Appendix C – Datasheets

Of Interest and Benefit to:

- National Diploma, BTech and BSc/BEng Students
- Engineers and technicians wishing to update their knowledge
- University and polytechnic libraries
- Working engineers and technicians