



## Power Systems- I

<b>Author :</b>	Suresh Mikkili
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## Product Description

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**Power Systems- I** This book gives detailed descriptions of the evolution of power systems, its components, power transmission, power system protection, fault analysis and in corporation of renewable energy systems. Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- The book provides QR codes for journal papers of advanced research areas; simulations using MATLAB, PSCAD, Proteus; experiments and additional e-resources including videos, weblinks, etc.



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## Table of Contents

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Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

- Basic Concepts
- Overhead Transmission Lines and Cables
- Transformers
- Synchronous Machines
- Symmetrical Faults
- Over-Voltages and Insulation Requirements
- Symmetrical Components, Unsymmetrical Faults and Sequence Networks
- Circuit Breakers and Neutral Grounding
- Protective Relays
- Protection Of Alternators, Transformers, Busbars and Transmission Lines
- HVDC Transmission
- Photovoltaic Systems
- Wind Energy

CO and PO attainment table Index terms

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## Author

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**Dr. Suresh Mikkili** Associate Professor & Head Electrical and Electronics Engineering, National Institute of Technology Goa

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## Database Management System

<b>Author :</b>	Japneet Kaur
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## Product Description

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The major objective of this book is to provide a strong formal foundation in database concepts, technology and practice to the readers to groom them into well-informed database application developers. Rather than discussing isolated knowledge/experience fragments in each of the concepts, technology and practice, the book will aim at achieving a good blend of the three. The overriding concern, therefore, is to include just enough concepts and theory to motivate and enrich the practical component, and to include technology component to maximize the relevance of the book to the industry without sacrificing the long-term objectives of rigour and foundational strength that can withstand the vagaries of technological advances. Written in simple and lucid language. Covers the UG and PG courses of various universities. Designed for the students as well as for the professionals. covered wide ranging topics with flexible organization and logical flow, enriched with large no. of examples and illustrative figures. Beside the basic fundamentals of DBMS this book also covers the advanced topics in database system such as distributed databases recovery, Transaction, concurrency and security etc. Special emphasis has been given on emerging trends in database System. numbers of expected questions are given for practices.

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## Table of Contents

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**Chapter 1:** Fundamentals of Database Management Systems. **Chapter 2:** Database concepts and Architecture. **Chapter 3:** Data Models. **Chapter 4:** Entity Relationship Modeling. **Chapter 5:** Relational Database Management System. **Chapter 6:** Relational Algebra and Calculus. **Chapter 7:** Normalization. **Chapter 8:** Structured Query Language. **Chapter 9:** Transaction Management. **Chapter 10:** Concurrency Control. **Chapter 11:** Recovery. **Chapter 12:** Database Security and Integrity. **Chapter 13:** Object Oriented Databases. **Chapter 14:** Distributed Database Management System. **Chapter 15:** Expert System. **Chapter 16:** Oracle Structured Query Language\* Plus. **Chapter 17:** Procedural Languages/Structured Query Language. **Chapter 18:** Developer Form. **Chapter 19:** Developer Report.

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## Author

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**Japneet Kaur DR.** Japneet Kaur B.Sc./BCA/M.Sc./MCA/B. Tech./M. Tech. etc. of various Indian Universities.

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**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320