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Electrical Engineering Bushra Arshad

Highlighting The Physics And Engineering Aspects Of Energy Conversion Systems, This Book Presents An Exhaustive Exposition Of Both Conventional And Non-Conventional Conversion Systems. * Presents A Detailed Description Of Nuclear And Photovoltaic Power. * Discusses Magneto Hydrodynamics, Wind And Ocean Energy, Fossil Fuel And Hydroelectric Power. * Explains Coal Gasification, Biomass And Geothermal Energy, Thermo-Electric Converters And Fuel Cells. * Also Explains Problems Of Cogeneration And Energy Storage. * Highlights The Global Energy Scenario And The Environmental Effects Of Various Energy Conversion Systems. * Illustrative Examples Are Provided Throughout The Book. Review And Multiple Choice Questions And Practice Problems Are Provided At The End Each Chapter. With Its Comprehensive Coverage And Systematic Presentation, This Is An Essential Text For Electrical Engineering Students. Practising Engineers Would Also Find This Book Extremely Useful As A Reference Source.

Fundamental of Microprocessors & its Application Bushra Arshad

This project will tackle the subject of Power Quality, Power Quality Disturbances, Power Quality Standards as well as Power Quality Monitoring. A general description of each of the disturbances will be given, and the basic techniques which are used to mitigate that disturbance so as to improve the quality of the supply are presented. It contains the following parts: 1. Abstract 2. Chapter 1 Introduction 3. Chapter 2 Literature Review On Power quality Disturbances 4. Chapter 3- Power Quality Standards 5. Chapter 4 Power Quality Monitoring 6. Chapter 5- Results and Discussion of Results 7. Chapter 6- Conclusion, Recommendations and Future Work 8. References 9. Appendice

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Utilisation of Electrical Power Bushra Arshad

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It explains Kirchhoff's laws, star-delta transformation, mesh analysis and node analysis. It also covers the application of various network theorems in analyzing d.c. circuits. The book incorporates detailed discussion of steady state analysis of single-phase series and parallel a.c. circuits along with the resonance. The book also explains the three phase balanced circuits, three phase power measurement and power factor improvement. The simple techniques and stepwise methods used to explain the phasor diagrams is the feature of the book. The book teaches the theory of various electrical measuring instruments. The book also covers the concept of earthing and electrical safety, which is most important while dealing with the electrical equipment's. The book also includes the discussion of magnetic circuits, self and mutual inductances and magnetic hysteresis. The book further explains the details of single-phase transformers and various electrical machines such as d.c. machines, three phase and single-phase induction motors and synchronous machines. The brief introduction of power system is also incorporated in the book. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the basic electrical engineering in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

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