



Electrical Engineering Fundamentals, Second Edition

By Vincent Del Toro

PHI Learning 0. Softcover. Condition: New. 2nd edition. This book is designed to provide a firm foundation in each of the five principal areas of Electrical Engineering. It is intended for the same courses where Del Toro's "Principles of Electrical Engineering" is being used. This edition is entirely rewritten and gives the student the option of using either the Laplace transform method or the classical method to solve problems on transients in circuits. The author develops each topic from a few fundamental laws, such as Coulomb's Law, Ohm's Law, Faraday's Law, etc. to impart a clearer and more unified understanding of concepts. The book is ideal for both majoring and non-majoring students of Electrical Engineering. CONTENTS: Preface. The Fundamental Laws of Electrical Engineering. PART ONE: ELECTRIC CIRCUIT THEORY_The Circuit Elements. Elementary Network Theory. Circuit Differential Equations: Forms and Solutions. Circuit Dynamics and Forced Responses. The Laplace-Transform Method of Finding Circuit Solutions. Sinusoidal Steady-State Response of Circuits. PART TWO: ELECTRONICS_Electron Control Devices: Semiconductor Types. Semiconductor Electronic Circuits. Special Topics and Applications. PART THREE: DIGITAL SYSTEMS_Binary Logic: Theory and Implementation. Simplifying Logical Functions. Components of Digital Systems. Microprocessor Computer Systems. PART FOUR: ELECTROMECHANICAL ENERGY CONVERSION_Magnetic Theory and Circuits. Transformers. Electromechanical Energy Conversion. The Three-Phase...



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