

Book Electrical Power System Analysis By Sivanagaraju Pdf

Electrical Power System AnalysisPower ElectronicsPower Semiconductor Drives S. Sivanagaraju S. Sivanagaraju S. Sivanagaraju

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a textbook on analyzing electrical power systems

designed for undergraduate students of electrical engineering this book offers a thorough understanding of the basic principles and techniques of power electronics as well as its applications it will also be useful to postgraduate students and practising engineers involved in the design and applications of power electronics divided into nine chapters the book covers the family of thyristors scr including its characteristics operation turn on and turn off procedures it also discusses power transistors mosfet igbt phase controlled rectifiers ac voltage controllers and cycloconverters choppers inverters and other devices the well illustrated diagrams the worked out examples and the chapter end questions help students to absorb concepts and thus reinforce the understanding of the subject

the book is primarily intended for b e b tech students of electrical engineering electrical and electronics engineering having courses in electric drives power semiconductor drives it will also be highly useful for m e m tech students of these disciplines specializing in power electronics industrial drives electric drives the text is divided into eight chapters the first two chapters cover the control of dc motors by using various kinds of converters the third chapter focuses on dual converters and various braking techniques chopper control fed dc motors are discussed in the fourth chapter the next three chapters are devoted to control methods for induction motors the eighth chapter deals with the control of synchronous motor drives fed from vsi converters and cycloconverters

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