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designed primarily as a textbook for senior undergraduate students pursuing courses in electrical and electronics engineering this book gives the basic knowledge required for power system planning operation and control the contents of the book are presented in simple precise and systematic manner with lucid explanation so that the readers can easily understand the underlying principles the book deals with the per phase analysis of balanced three phase system per unit values and application including modelling of generator transformer transmission line and loads it explains various methods of solving power flow

equations and discusses fault analysis balanced and unbalanced using bus impedance matrix it describes various concepts of power system stability and explains numerical methods such as euler method modified euler method and runge kutta methods to solve swing equation besides this book includes flow chart for computing symmetrical and unsymmetrical fault current power flow studies and for solving swing equation it is also fortified with a large number of solved numerical problems and short answer questions with answers at the end of each chapter to reinforce the students understanding of concepts this textbook would also be useful to the postgraduate students of power systems engineering as a reference

this book presents power system analysis methods that cover all aspects of power systems operation utilization control and system management at the beginning of each chapter an introduction is given describing the objectives of the chapter the authors have attempted to present power system parameters in a lucid logical step by step approach in a lucid logical step by step approach in recognition of requirements by the accreditation board for engineering and technology abet on integration of engineering computer tools the authors demonstrate the use of matlab programming in obtaining solutions to engineering power problems matlab is introduced in a student friendly manner and follow up is given in appendix a the use of matlab and power system applications arepresented throughout the book practice problems immediately follow each illustrative example students can follow the example step by step to solve the practice problems these practice problems test students comprehension and reinforce key concepts before moving on to the next chapter in each chapter the authors discuss some application aspects of the chapter s concepts using computer programming the material covered in the chapter applied to at least one or two practical problems to help students see how the concepts are used in real life situations thoroughly worked examples are provided at the

end of every section these examples give students a solid grasp of the solutions and the confidence to solve similar problems themselves designed for a three hour semester course on power system operation utilization and control this book is intended as a textbook for a senior level undergraduate student in electrical and computer engineering the prerequisites for a course based on this book are knowledge of standard mathematics including calculus and complex numbers and basic undergraduate engineering courses

this book reflects fundamentals to the power system and equips them to recognize and solve the transient problems in power networks and its components initially the book represents the basic matlab simulink instructions and their applications for power system design practicality has been a paramount concern in its preparation many pioneers of electrical engineering explored the transient behaviors of the electric circuits this book effectively helpful for the graduate post graduate studies and researches on power system transients and emergence reemergence the problems in the power system operations and control for new applications with new equipment under transients i have attempted to set out the fundamental ideas at the beginning of the book and made consistent effort to show thereafter how one peels away the superficial differences in practical transient studies by referring various books researches and physical industrial visits

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