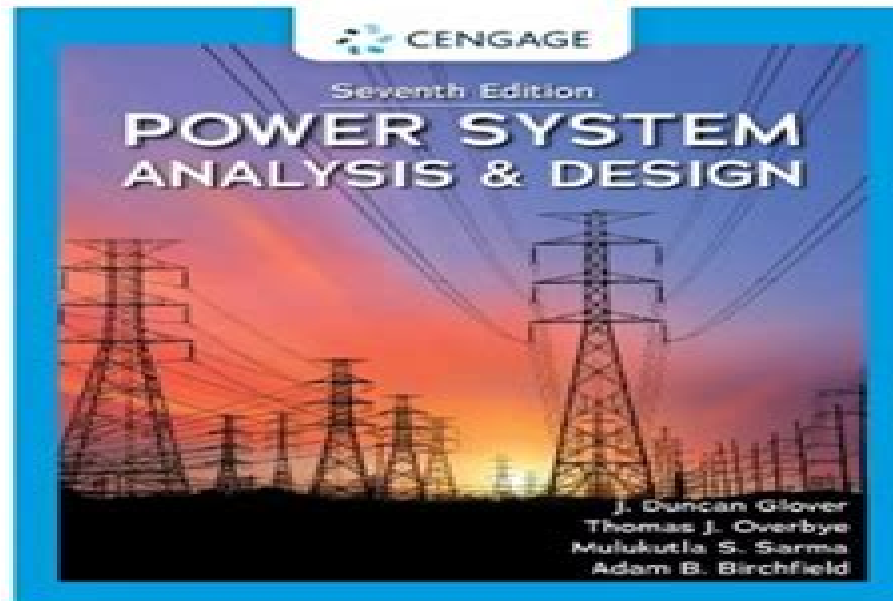

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SEVENTH EDITION

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failures Throughout these case studies actual digital fault recording DFR records oscillograms and numerical relay fault records are presented and analyzed to demonstrate why power system disturbances happen and how the sequence of events are deduced The final chapter of the book is dedicated to practice problems encouraging readers to apply what they ve learned to perform their own system disturbance analyses This book makes it possible for engineers technicians and power system operators to perform expert power system disturbance analyses using the latest tested and proven methods Moreover the book s many cases studies and practice problems make it ideal for students studying power systems Power Plants and Power Systems Control 2003 Kwang Y Lee,Myong-Chul Shin,2004-04 Approx 422 pages , **Smart Grid** Stephen F. Bush,2014-03-31 This book bridges the divide between the fields of power systems engineering and computer communication through the new field of power system information theory Written by an expert with vast experience in the field this book explores the smart grid from generation to consumption both as it is planned today and how it will evolve tomorrow The book focuses upon what differentiates the smart grid from the traditional power grid as it has been known for the last century Furthermore the author provides the reader with a fundamental understanding of both power systems and communication networking It shows the complexity and operational requirements of the evolving power grid the so called smart grid to the communication networking engineer and similarly it shows the complexity and operational requirements for communications to the power systems engineer The book is divided into three parts Part One discusses the basic operation of the electric power grid covering fundamental knowledge that is assumed in Parts Two and Three Part Two introduces communications and networking which are critical enablers for the smart grid It also considers how communication and networking will evolve as technology develops This lays the foundation for Part Three which utilizes communication within the power grid Part Three draws heavily upon both the embedded intelligence within the power grid and current research anticipating how and where computational intelligence will be implemented within the smart grid Each part is divided into chapters and each chapter has a set of questions useful for exercising the readers understanding of the material in that chapter Key Features Bridges the gap between power systems and communications experts Addresses the smart grid from generation to consumption both as it is planned today and how it will likely evolve tomorrow Explores the smart grid from the perspective of traditional power systems as well as from communications Discusses power systems communications and machine learning that all define the smart grid It introduces the new field of power system information theory **Subject Guide to Books in Print** ,1983

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