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control and dynamic systems advances in theory and applications volume 42 analysis and control system techniques for electric power systems part 2 of 4 covers the research studies on the significant advances in areas including economic operation of power systems and voltage and power control techniques this book is composed of eight chapters and begins with a survey of the application of parallel processing to power system analysis as motivated by the requirement for faster computation the next chapters deal with the issues of power system protection from a system point of view the voltage stability phenomenon and an overview of the techniques used in the reliability evaluation of large electric power systems these chapters also look into the reliability assessment of bulk power systems which are the composite of generation and high voltage transmission often called composite systems these topics are followed by investigations of the potential of integer quadratic optimization to improve efficiency in a radial electric distribution system through the coordination of switched

capacitors and regulators other chapters consider the issues of the optimal operation of a power system that are substantially complicated as a result of the large system scale nature of these issues the final chapters explore the techniques for achieving requisite speed improvements that are essential to electric power systems and the problems on effective methods in hydro optimization this book will be of value to electrical engineers designers and researchers

this book is the result of the first conference organized under the auspices of the parallel computing society the only independent international forum where researchers manufacturers and users of parallel computers can exchange expertise and experience in the development and use of all types of systems the emphasis is on applications of parallel computing in addition to papers discussing the development of new algorithms for and applications of various types of parallel computers an overview of the newest developments regarding parallel computer hardware and software is given

accuracy and stability of numerical algorithms gives a thorough up to date treatment of the behavior of numerical algorithms in finite precision arithmetic it combines algorithmic derivations perturbation theory and rounding error analysis all enlivened by historical perspective and informative quotations this second edition expands and updates the coverage of the first edition 1996 and includes numerous improvements to the original material two new chapters treat symmetric indefinite systems and skew symmetric systems and nonlinear systems and newton s method twelve new sections include coverage of additional error bounds for gaussian elimination rank revealing lu factorizations weighted and constrained least squares problems and the fused multiply add operation found on some modern computer architectures

vlsi electronics microstructure science volume 7 presents a comprehensive exposition and assessment of the developments and trends in vlsi very large scale integration electronics this treatise covers subjects that range from microscopic aspects of materials behavior and device performance to the comprehension of vlsi in systems applications each chapter is prepared by a recognized authority the topics contained in this volume include a basic introduction to the application of superconductivity in high speed digital systems the expected impact of vlsi technology on the implementation of ai artificial intelligence the limits to improvement of silicon integrated circuits and the various spontaneous noise sources in vlsi circuits and their effect

on circuit operation scientists engineers researchers device designers and systems architects will find the book very useful

the aim of these series of volumes advances in petri nets is to present to the general computer science community the most significant recent results with regard to the development in the area the main source of the papers are the annual european workshops on applications and theory of petri nets the highest ranked papers from the past workshops are considered for the series i e they are again reviewed and accordingly revised or extended in addition to the workshop papers the advances also present invited papers the present volume advances in petri nets 1987 covers the 7th european workshop on applications and theory of petri nets held in oxford great britain in june 1986 it also contains a survey on complexity of problems related to petri nets written by r r howell and l e rosier a special feature of this volume is a bibliography on petri nets containing more than 2000 entries

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this book covers four areas of parallel computing principles technology architecture and programming it is suitable for professionals and undergraduates taking courses in computer engineering parallel processing computer architecture scaleable computers or distributed computing

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