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structural analysis is the corner stone of civil engineering and all students must obtain a thorough understanding of the techniques available to analyse and predict stress in any structure the new edition of this popular textbook provides the student with a comprehensive introduction to all types of structural and stress analysis starting from an explanation of the basic principles of statics normal and shear force and bending moments and torsion building on the success of the first edition new material on structural dynamics and finite element method has been included virtually no prior knowledge of structures is assumed and students requiring an accessible and comprehensive insight into stress analysis will find no better book available provides a comprehensive overview of the subject providing an invaluable resource to undergraduate civil engineers and others new to the subject includes numerous worked examples and problems to aide in the learning process and develop knowledge and skills ideal for classroom and training course usage providing relevant pedagogy

demystifying numerical models step by step modeling of engineering systems is the perfect guide on the analytic concepts of engineering components and systems in simplified terms the book focuses on engineering characteristics and behaviors using numerical methods readers will learn how the computational aspects of engineering analysis can be applied to develop various engineering systems to a level that is fit for implementation provides numerical examples and graphical representations of complex mathematical models includes downloadable spreadsheets of the numerical tools discussed that allow the reader to gain a hands on understanding of how they work explains the engineering foundations behind the increasingly widespread and complex numerical models

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rather than parallelizing sequential algorithms the authors develop new back substitution free parallel algorithms using a bidirectional elimination technique for the solution of both dense and sparse linear equations they provide full coverage of bidirectional parallel algorithms based on gaussian elimination lu factorization householder reductions and modified gram schmidt orthogonalization givens rotations sparse cholesky factorization and sparse factorization clearly demonstrating how the bidirectional approach allows for improved speedup numerical stability and efficient implementation on multiprocessor systems plus the book offers a useful survey of the vast literature on direct methods introductory material on solving systems of linear equations and exercises it is an invaluable resource for computer scientists researchers in parallel linear algebra and anyone with an interest in parallel programming book jacket

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