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Figure 1-5 Finite element model of a chimney stack
section (end view rotated 45) (584 beam and 252 flat-

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plate elements) (By D. L. Logan) 1.6 Advantages of the Finite Element Method d 19 Figure 1-6 Model of a high-strength steel die (240 axisymmetric elements) used in the plastic film industry [40]

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This title demonstrates how to develop computer programmes which solve specific engineering problems using the finite element method. It enables students, scientists and engineers to assemble their own computer programmes to produce numerical results to solve these problems. The first three

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editions of Programming the Finite Element Method established themselves as an authority in this area. This fully revised 4th edition includes completely rewritten programmes with a unique description and list of parallel versions of programmes in Fortran 90. The Fortran programmes and subroutines described in the text will be made available on the Internet via anonymous ftp, further adding to the value of this title.

This book intend to supply readers with some MATLAB codes for finite element analysis of solids and

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structures. After a short introduction to MATLAB, the book illustrates the finite element implementation of some problems by simple scripts and functions. The following problems are discussed: □ Discrete systems, such as springs and bars □ Beams and frames in bending in 2D and 3D □ Plane stress problems □ Plates in bending □ Free vibration of Timoshenko beams and Mindlin plates, including laminated composites □ Buckling of Timoshenko beams and Mindlin plates The book does not intend to give a deep insight into the finite element details, just the basic equations so that the user can modify the codes. The book was prepared for undergraduate science and engineering students, although it may be

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useful for graduate students. The MATLAB codes of this book are included in the disk. Readers are welcomed to use them freely. The author does not guarantee that the codes are error-free, although a major effort was taken to verify all of them. Users should use MATLAB 7.0 or greater when running these codes. Any suggestions or corrections are welcomed by an email to ferreira@fe.up.pt.

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to Finite Element Analysis Using MATLAB and Abaqus introduces and explains theory in each chapter, and provides corresponding examples. It offers introductory notes and provides matrix structural analysis for trusses, beams, and frames. The book examines the theories of stress and strain and the relationships between them. The author then covers weighted residual methods and finite element approximation and numerical integration. He presents the finite element formulation for plane stress/strain problems, introduces axisymmetric problems, and highlights the theory of plates. The text supplies step-by-step procedures for solving problems with Abaqus interactive and keyword editions. The described

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