



Metal Forming Analysis

By R. H. Wagoner, J.-L. Chenot

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Numerical methods, particularly finite element (FE) analysis, are being used increasingly to optimize product design and deal with problems in metal forging, rolling, and extrusion processes. Metal Forming Analysis describes the latest and most important numerical techniques for simulating metal-forming operations. The first part of the book describes principles and procedures and includes numerous examples and worked problems. The remaining chapters focus on applications of numerical analysis to specific forming operations. Most of these results are drawn from the authors' research in the areas of metal testing, sheet metal forming, forging, extrusion, and similar operations. Sufficient information is presented so that readers can understand the application of the nonlinear finite element method to forming problems without a prior background in structural finite element analysis.

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Editorial Review

Review

"Unquestionably a book of this kind will clearly be of the greatest use as a pleasant and stimulating text for graduate students, and researchers, and practising engineers. They will welcome this thorough reference to state-of-the-art numerical methods used in metal forming analysis...the book is rated as an impressive achievement and an incomparable reference for every one involved in the field of metal forming operations. It is difficult to imagine any one of them who would not make good use of this responsible and realistic text and reference." Current Engineering Practice

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