



Fundamentals of Metal Forming

By Robert H. Wagoner, Jean-Loup Chenot

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This comprehensive reference presents the latest techniques for numerical analysis of forming operations. This is the perfect tool for those who wish to investigate new analytical methods for forming.

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Editorial Review

From the Publisher

Wagoner, a major figure in metallurgy, presents a text/reference that provides a solid foundation in modern numerical analysis based on the finite method. Each chapter contains sample problems with solutions and experiential exercises. Illustrated with numerous graphs and charts.

From the Back Cover

This text provides the fundamental background in mechanics, materials, and numerical analysis necessary to understand the principles of metal forming and its analysis. Using a unified approach, the authors bridge traditional gaps between forming practitioners, manufacturing engineers, materials scientists, and mechanics, to give readers a complete picture of the dynamic field of modern metal forming. Everything You need to Bridge the Gap Between... Theory, Application, and Numerical Techniques Now you can see how theory, applications, and numerical techniques are intimately linked with a text that balances all three! Numerous exercises and three kinds of problems: Proficiency, Depth, and Numerical help readers fully grasp the theory, application and modern computing techniques in metal forming. ...Concept and Understanding The authors' informal writing style, emphasis on physical intuition, and numerous exercises combine to take the reader from intangible concept to practical understanding. ... Learning and the Real World An emphasis on physical intuition, leads to a deeper understanding of the principles underlying advanced numerical treatments. Plus, alternative forms of mathematical notation familiarize students with real-world practice.

About the Author

Robert H. Wagoner, NAE, FASM, brings both a teaching perspective (Professor, Department of Materials Science and Engineering, Ohio State University) and industrial experience (Staff Research Scientist, G. M. Research Laboratories) to his work in sheet metal forming and simulation. Developer of the Sheet family of computer programs in use at several companies and universities, Professor Wagoner has received extensive recognition for research achievements, including the Mathewson Gold Medal, Raymond Memorial Award, and Hardy Gold Medal. He has more than 150 research articles in print. Professor Wagoner is Director of the Center for Advanced Materials and Manufacturing of Automotive Components (CAMMAC), and is co-organizer of Numisheet '96.

Jean-Loup Chenot is Director of CEMEF, the Centre de Mise en Forme des Matériaux, a research and teaching facility of the School of Mines of Paris. CEMEF is one of Europe's premier institutes devoted to materials forming and, with close industrial cooperation, is the developer of the Forge family of programs. Winner of the Doistau-Blutel Prize of the French Academy of Sciences, the Chevalier de l'Ordre National du Mérite, the Chevalier de l'Ordre des Palmes Académiques, and Organizer of Numiform '92, Dr. Chenot has presented over 100 international or keynote lectures and has published over 125 articles on the subject of numerical simulation of industrial forming operations, particularly bulk forming.

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