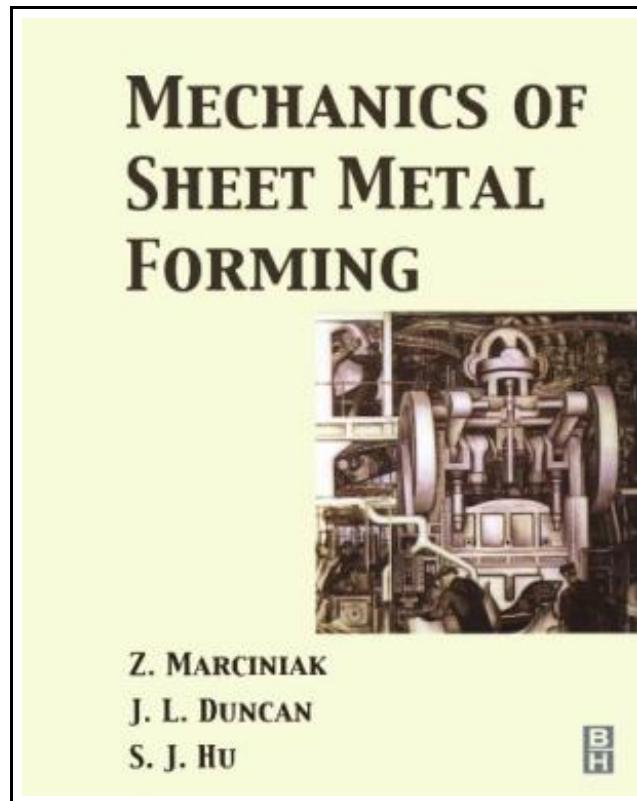


## Mechanics of Sheet Metal Forming



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*(Prof. Corbin Hilll)*

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Butterworth-Heinemann. Paperback. Condition: New. 211 pages. Dimensions: 9.5in. x 7.0in. x 0.5in. The basic theory of sheet metal forming in the automotive, appliance and aircraft industries is given. This fills a gap between the descriptive treatments in most manufacturing texts and the advanced numerical methods used in computer-aided-design systems. The book may be used by lecturers in undergraduate courses in manufacturing; plentiful exercises and worked examples provide quantitative tutorial problems for students. A separate, but related simulation software package advertised on this page enables students to explore the limits of processes and understand the influence of different process and material variables. Engineers in stamping plants and press shops find the book useful in understanding what happens during forming and why failures occur. The book is also used as a text for industrial short courses that have been given in many countries. Die designers and tooling engineers find the simple treatment of processes useful at the conceptual design stage and also in determining modifications needed to overcome problems indicated by detailed numerical analysis. The original text, published 10 years ago, has been completely rewritten for this edition and newer topics such as hydroforming included. Simple equations governing plastic deformation, press forming, bending, punch stretching and deep drawing are derived and explained. The aim is to provide simple applicable methods rather than complex numerical techniques for practising engineers and for students interested in a quantitative and practical approach. SIMPLIFIED STAMPING SIMULATION SOFTWARE 4S The analytical treatment in this book is used to develop simulation modules for simple cases of sheet forming such as stamping, deep drawing, bending and hydroforming. Students can investigate the influence of tooling dimensions, material properties and process variables such as friction on the outcome of operations and see from animated models how, for example, press loads develop during forming. Applications...



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