



Applied Metal Forming: Including FEM Analysis

By Henry S. Valberg

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Applied Metal Forming: Using FEM Analysis describes metal forming theory and how experimental techniques can be used to study any metal forming operation with great accuracy. For each primary class of processes, such as forging, rolling, extrusion, wire drawing, and sheet-metal forming, it explains how FEA (Finite Elements Analysis) can be applied with great precision to characterize the forming condition and in this way optimize the processes. FEA has made it possible to build very realistic FEM-models of any metal forming process, including complex three-dimensional forming operations, in which complex products are shaped by complex dies. Thus, using FEA it is now possible to visualize any metal forming process and to study strain, stresses, and other forming conditions inside the parts being manufactured as they develop throughout the process.

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Editorial Review

About the Author

Henry Valberg is a professor in the Department of Engineering Science and Materials at the Norwegian University of Science and Technology (NTNU). He began his professional career as a metallurgist at LFK, the Royal Norwegian Airforce, and then at A/S Norsk Jernverk, Mo i Rana, and finally as a Research Scientist at SINTEF, Division of Materials and Processes, before joining the Norwegian Institute of Technology (NTH) as a senior lecturer in 1984 and full professor in 1994. He was a visiting professor at Denmark's Technical University in 1997-98. Professor Valberg's main fields of research are materials, metal forming, experimental deformation analysis, and FE analysis. His work covers all main metal forming processes, including forging, rolling, extrusion, drawing, and sheet-metal forming. He is the author of more than 60 refereed journal articles and has supervised numerous graduate students. Valberg is currently a research manager for a forging project run by three Norwegian forging companies.

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