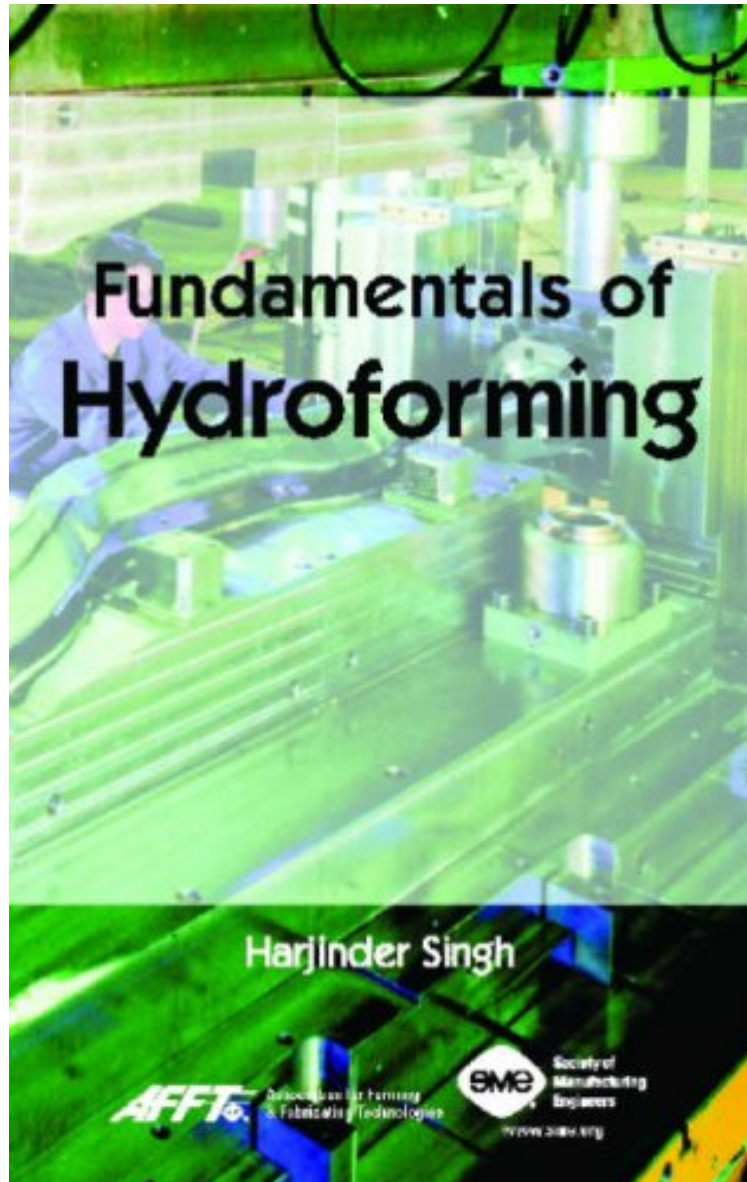


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# Fundamentals of Hydroforming

*Harjinder Singh*

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This book is a readable overview and design guidelines for the increasingly preferred manufacturing process. You can learn how to successfully implement hydroforming, the manufacturing process that brings together low cost, low mass, improved structural performance and improved quality. Fundamentals of Hydroforming covers fundamentals of both tube hydroforming (the most common) and sheet metal hydroforming, with comprehensive guidelines for product design, material selection, computer simulation of the hydroforming process and tool design. It also outlines assembly techniques, considerations of holes and slots, and types of hydroforming equipment. Fundamentals of Hydroforming provides product designers, manufacturing engineers and process engineers a wide range of technical information in one concise, easy to follow source.

About the Author Harjinder Singh's engineering career started with an industrial engineering apprenticeship, followed by a B.Sc. in Mechanical Engineering at the University of Aston in Birmingham, England. He then worked in the Advanced Vehicles Department at Rover Group's Gaydon Technology Proving Grounds in England. He was part of several energy conservation vehicle projects utilizing lightweight aluminum structures. At Hawtal Whiting, Inc. (an automotive design and engineering consulting company), he gained extensive experience in the design and development of automotive structures and the application of computer-aided engineering (CAE) techniques. Currently he manages the engineering activities of Hydrodynamic Technologies where he is responsible for the implementation of hydroforming prototype and production engineering projects.