



Automation and Robotisation in Welding and Allied Processes: Proceedings of the International Conference Held at Strasbourg, France, 2-3 September 1985, ... of the International Institute of Welding

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Automation and Robotisation in Welding and Allied Processes contains the proceedings of the International Conference on Automation and Robotization in Welding and Allied Processes held in Strasbourg, France, on September 2-3, 1985, under the auspices of the International Institute of Welding. The papers explore developments in the mechanization, automation, and utilization of robots in welding and related processes and cover topics such as half and fully mechanized welding of offshore constructions; adaptive systems of process control for spot welding robotic cells; and application of computer integrated manufacture to welder fabrication.

This book is divided into two sections and begins with an overview of technical, economic, and human factors relating to mechanization and automation in arc and resistance welding. The next chapter describes a closed-loop controlled arc welding power source using a microcomputer as controller. The discussion then turns to problems associated with half and fully mechanized welding of offshore constructions; flexible manufacturing systems comprising welding with high productivity in small lot production; and the main factors causing process disturbance in spot welding. The final chapter is devoted to advanced adaptive control of automated arc welded fabrication which involves sensor application for seam tracking and joint recognition, preprogramming and online supervision of process parameters, and the design of a closed adaptive control loop.

This monograph will be of interest to mechanical, electronics, industrial, and robotics engineers.

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