



Laser Welding

W. W. Duley

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A Comprehensive overview of the theory and applications of laser welding

This complete and up-to-date overview examines both the state of the art and likely future directions of laser welding technology. Paying particular attention to manufacturing, where applications of laser welding range from vehicle assembly to the joining of microelectric components, this comprehensive volume reviews the fundamentals, examines the latest research data, and offers detailed coverage of practical applications. The emphasis is on optimizing laser welding techniques to achieve defect-free results at high speed and under reproducible conditions. Author Walter W. Duley also discusses design issues, material properties, and the efficient delivery of laser radiation in welding applications, as well as the practical aspects of joint design. Other important features of this book include:

- * Comprehensive data on real-world laser welding applications, including the new application of tailor blanking
- * Performance criteria for numerous laser welding systems
- * A review of available welding data for various metals and other materials
- * A section on laser welding diagnostics and monitoring techniques
- * Over 160 illustrations
- * Extensive references and a bibliography for specific industrial applications.

Laser Welding is an indispensable resource for engineers and scientists using laser welding technology and a useful text for students in physics, material science, and mechanical engineering. It is also a valuable reference for researchers and designers developing new laser welding systems and studying the laser welding process. Walter W. Duley is a professor at the University of Waterloo in Ontario, Canada, and is the founder and former chairman of Powerlasers Limited. His previous books include UV Lasers: Effects and Applications in Materials Science, Laser Processing and Analysis of Materials, and CO2 Lasers: Effects and Applications.

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