



Resistance Welding: Fundamentals and Applications

Hongyan Zhang, Jacek Senkara

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High-performance steels and aluminum alloys pose significant challenges to resistance welding processes. Unfortunately for students in materials science, metallurgy, and manufacturing, most available books provide only a superficial treatment of resistance spot welding. Surveying the topic in a scientific and systematic manner, *Resistance Welding: Fundamentals and Applications* supplies practical insight into every aspect of the field.

This book comprehensively examines every aspect of resistance welding, from metallurgy and fundamental physical processes, such as electrothermal processes and discontinuities, to mechanical testing, process monitoring and control, weld quality and inspection, expulsion, and numerical simulation. The authors consider the influence of mechanical characteristics of welding machines and emphasize statistical design, analysis, and inference in resistance welding research, enabling students to conduct their own investigations. They present state-of-the-art research results from their own studies as well as from other leading experts, and the text's many examples are derived from real experiments. Case studies and nearly 300 figures illustrate the concepts.

Resistance Welding: Fundamentals and Applications imparts a fundamental understanding of resistance welding processes and phenomena that empowers students to approach high-performance steels, aluminum alloys, and other new materials with confidence. It is an ideal upper-level undergraduate or graduate text for courses in assembly and joining processes, fundamentals of welding, and manufacturing processes.



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