

Welding Metallurgy and Weldability of **Stainless Steels**

By Damian J. Kotecki John C. Lippold



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This book describes the fundamental metallurgical principles that control microstructure and properties of welded stainless steels. It also serves as a practical "how to" guide that will allow engineers to select the proper alloys, filler metals, heat treatments, and welding conditions to insure that failures are avoided during fabrication and service. This book provides state of the art information on the topic and greatly expands and update what is currently available in other texts and handbooks. · introduction. · phase diagrams. · alloying elements and constitution diagrams. · martensitic stainless steels. · ferritic stainless steels. · austenitic stainless steels. · duplex stainless steels. · precipitation-hardening stainless steels. · dissimilar welding of stainless steels. · weldability testing.



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