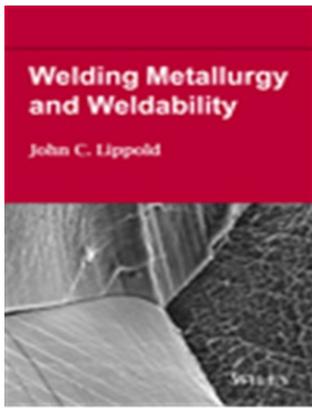


**Welding Metallurgy and Weldability, 1/e**

John C Lippold



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**About the Book**

Welding Metallurgy and Weldability describes weld failure mechanisms associated with either fabrication or service, and failure mechanisms related to microstructure of the weldment. Weldability issues are divided into fabrication and service related failures; early chapters address hot cracking, warm (solid-state) cracking, and cold cracking that occur during initial fabrication, or repair. Guidance on failure analysis is also provided, along with examples of SEM fractography that will aid in determining failure mechanisms. Welding Metallurgy and Weldability examines a number of weldability testing techniques that can be used to quantify susceptibility to various forms of weld cracking.

**Salient Features**

Describes the mechanisms of weldability along with methods to improve weldability

Includes an introduction to weldability testing and techniques, including strain-to-fracture and Varestraint tests

Chapters are illustrated with practical examples based on 30 plus years of experience in the field

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