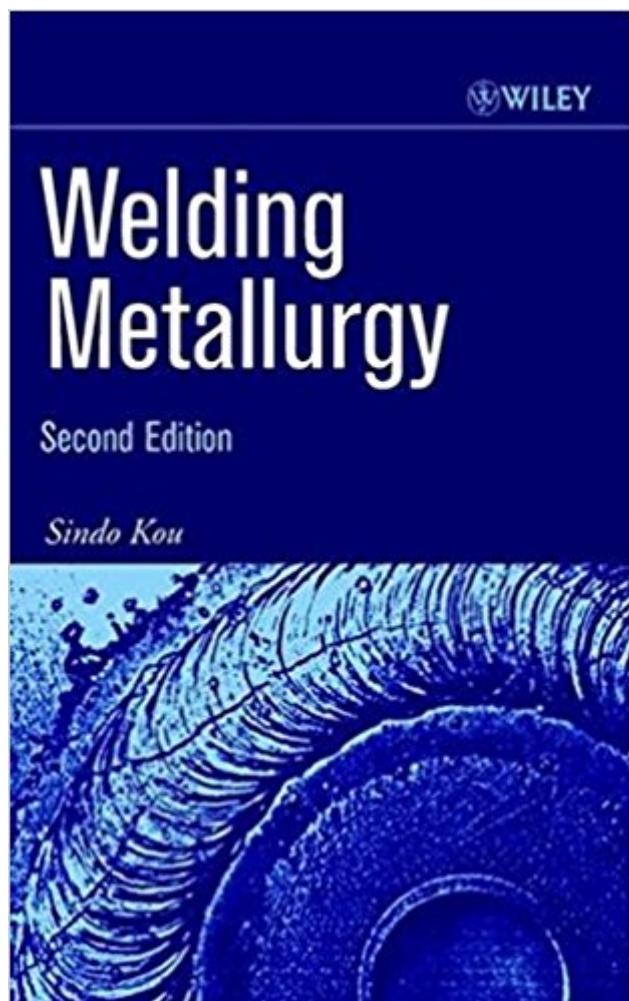


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Welding Metallurgy



Synopsis

Updated to include new technological advancements in welding. Uses illustrations and diagrams to explain metallurgical phenomena. Features exercises and examples. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Book Information

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Customer Reviews

"Well presented, comprehensive, and accurate—a welcome addition to the bookshelves of metallurgists, academics, postgraduate students, as well as non-specialized engineers." (JOM, February 26, 2004) "The second edition, a valuable resource for practitioners, researchers and students, contains more exercises and offers a solution manual upon request..." (Materials Evaluation, February 2003) "For many years this review has been looking, without success, for a book on the metallurgy of welding. This...second edition fulfills all those needs and expectations...all those who need a basic understanding of...welds will greatly benefit...a valuable acquisition—highly recommended." (Choice, Vol. 40, No. 7, March 2003)

The premier reference for welding metallurgy, completely revised and expanded. Since its initial publication in 1987, Welding Metallurgy has been the standard text for the instruction of welding in technical schools and as a reference for professional welders. Updating the existing material and adding a substantial amount of new content, the Second Edition expands the scope of the first and

remains the benchmark resource in its field. Metallurgical phenomena are explained with the help of illustrations that integrate the phase diagram, thermal cycle, kinetics, microstructure, and physical properties. More exercise problems are provided in the Second Edition, and a Solutions Manual is available upon request. Examples of updated features include: * Much sharper photomicrographs and line drawings * Updated heat-source efficiency and melting efficiency * Updated and expanded chemical reactions in welding * Turbulence (now included in weld pool convection), flow visualization, and arc-plasma dragging * Solute redistribution and microsegregation have been expanded and the solidification path added * Solidification modes are explained with more illustrations * Ferrite formation mechanisms, new ferrite prediction methods, the effect of cooling rate, and factors affecting the austenite-ferrite transformation * Six different liquation mechanisms in the partially melted zone, the direction and modes of grain boundary (GB) solidification, and the resultant GB segregation Practitioners, researchers, and students will find Welding Metallurgy, Second Edition to be an invaluable, one-stop resource on the science of welding.

very good book, covers many different topics concisely and effectively through short chapters. I also like that the many references are given at the end of each chapter.

Best welding metallurgy book on the market. I teach welding metallurgy in a community college welding program and have relied extensively on this book to prepare my lectures.

For a welding textbook, the book was decently readable. I suppose you can't expect more than that.

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But don't most of us already know the basics of metallurgy? It reminds me of the time I saw my brother smoking cigarettes behind the garage. He had stolen them from my mother and didn't really seem to be enjoying himself. But he smoked the whole pack. As he finished, I thought to myself, "what a loser." But the fact was I had sat there for 45 minutes watching him smoke all those cigarettes. So, I guess I was even a bigger loser. A moniker that stayed with me most of my teenage life. I didn't dislike school, I got to see a lot of pretty girls that would never have sat next to me anywhere else. I didn't get good grades, as I was addicted to after-school cartoons like Tom & Jerry. Even well into my teens. If I see them now, I watch them in totality looking for what appealed to me

when I was younger. I can't find it.

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