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SINDO KOU, PhD, is Professor and Chair of the Department of Materials Science and Engineering at the University of Wisconsin. He graduated from MIT with a PhD degree in metallurgy. He is a Fellow of American Welding Society and ASM International.

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SINDO KOU, PhD, is Professor and Chair of the Department of Materials Science and Engineering at the University of Wisconsin. He graduated from MIT with a PhD degree in metallurgy. He is a Fellow of American Welding Society and ASM International. He is the author of Transport Phenomena and Materials Processing, also published by Wiley.



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Welding Metallurgy Sindo Kou Solution SINDO KOU, PhD, is Professor and Chair of the Department of Materials Science and Engineering at the University of Wisconsin. He

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graduated from MIT with a PhD degree in metallurgy.

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Sindo Kou, PhD, is Professor and former Chair of the Department of Materials Science and Engineering at the University of Wisconsin. He graduated from MIT with a doctorate in metallurgy. He is a Fellow of American Welding Society and ASM International. He received the William Irrgang Memorial Award (2018), the Honorary Membership Award (2016), and the Comfort A. Adams Lecture Award (2012) from ...

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Annotation \* Updated to include new technological advancements in welding \* Uses illustrations and diagrams to explain metallurgical phenomena \* Features exercises and examples.

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Welding Metallurgy, 3rd Edition is the only complete compendium of recent, and not-so-recent, developments in the science and practice of welding metallurgy. Written by Dr. Sindo Kou, this edition covers solid-state welding as well as fusion welding, which now also includes resistance spot welding.

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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.

An extremely useful guide to the theory and applications of transport phenomena in materials processing This book defines the unique role that transport phenomena play in materials processing and offers a graphic, comprehensive treatment unlike any other book on the subject. The two



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parts of the text are, in fact, two useful books. Part I is a very readable introduction to fluid flow, heat transfer, and mass transfer for materials engineers and anyone not yet thoroughly familiar with the subject. It includes governing equations and boundary conditions particularly useful for studying materials processing. For mechanical and chemical engineers, and anyone already familiar with transport phenomena, Part II covers the many specific applications to materials processing, including a brief description of various materials processing technologies. Readable and unencumbered by mathematical manipulations (most of which are allocated to the appendixes), this book is also a useful text for upper-level undergraduate and graduate-level courses in materials, mechanical, and chemical engineering.

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It includes hundreds of photographs of materials processing in action, single and composite figures of computer simulation, handy charts for problem solving, and more.

Transport Phenomena and Materials Processing: Describes eight key materials processing technologies, including crystal growth, casting, welding, powder and fiber processing, bulk and surface heat treating, and semiconductor device fabrication Covers the latest advances in the field, including recent results of computer simulation and flow visualization Presents special boundary conditions for transport phenomena in materials processing Includes charts that summarize commonly encountered boundary conditions and step-by-step procedures for problem solving Offers a unique derivation of governing equations that leads

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to both overall and differential balance equations Provides a list of publicly available computer programs and publications relevant to transport phenomena in materials processing

This is the third in a series of compendiums devoted to the subject of weld hot cracking. It contains 22 papers presented at the 3rd International Hot Cracking Workshop in Columbus, Ohio USA in March 2010. In the context of this workshop, the term “ hot cracking ” refers to elevated temperature cracking associated with either the weld metal or heat-affected zone. These hot cracking phenomena include weld solidification cracking, HAZ and weld metal liquation cracking, and ductility-dip cracking. The book is divided into three major sections based on material type;

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specifically aluminum alloys, steels, and nickel-base alloys. Each of these sections begins with a keynote paper from prominent researchers in the field: Dr. Sindo Kou from the University of Wisconsin, Dr. Thomas Böllinghaus from BAM and the University of Magdeburg, and Dr. John DuPont from Lehigh University. The papers contained within include the latest insight into the mechanisms associated with hot cracking in these materials and methods to prevent cracking through material selection, process modification, or other means. The three Hot Cracking Phenomena in Welds compendiums combined contain a total of 64 papers and represent the best collection of papers on the topic of hot cracking ever assembled.

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The most up-to-date coverage of welding metallurgy aspects and weldability issues associated with Ni-base alloys *Welding Metallurgy and Weldability of Nickel-Base Alloys* describes the fundamental metallurgical principles that control the microstructure and properties of welded Ni-base alloys. It serves as a practical how-to guide that enables engineers to select the proper alloys, filler metals, heat treatments, and welding conditions to ensure that failures are avoided during fabrication and service. Chapter coverage includes: Alloying additions, phase diagrams, and phase stability Solid-solution strengthened Ni-base alloys Precipitation strengthened Ni-base alloys Oxide dispersion strengthened alloys and nickel aluminides Repair welding of Ni-base alloys Dissimilar welding Weldability testing High-chromium alloys used in

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nuclear power applications With its excellent balance between the fundamentals and practical problem solving, the book serves as an ideal reference for scientists, engineers, and technicians, as well as a textbook for undergraduate and graduate courses in welding metallurgy.

Market\_Desc: · Professional engineers, technicians, scientists, etc. working in industries where stainless steels are used for construction. This includes the power generation, energy, petrochemical, dairy, medical, electronic, defense, and construction industries.· Advanced undergraduate and graduate level students. Special Features:  
· Emphasizes solid fundamental underpinnings of the metallurgical principles that govern microstructure evolution

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and property development in welded stainless steels.

Presents many practical examples that demonstrate the application of fundamental metallurgical principles. Greatly expands and updates what is currently available in other texts and handbooks in the subject matter. About The Book:

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.

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Discover the extraordinary progress that welding metallurgy has experienced over the last two decades. *Welding Metallurgy, 3rd Edition* is the only complete compendium of recent, and not-so-recent, developments in the science and practice of welding metallurgy. Written by Dr. Sindo Kou, this edition covers solid-state welding as well as fusion welding, which now also includes resistance spot welding. It restructures and expands sections on Fusion Zones and Heat-Affected Zones. The former now includes entirely new chapters on microsegregation, macrosegregation, ductility-dip cracking, and alloys resistant to creep, wear and corrosion, as well as a new section on ternary-alloy solidification. The latter now includes metallurgy of solid-



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state welding. Partially Melted Zones are expanded to include liquation and cracking in friction stir welding and resistance spot welding. New chapters on topics of high current interest are added, including additive manufacturing, dissimilar-metal joining, magnesium alloys, and high-entropy alloys and metal-matrix nanocomposites. Dr. Kou provides the reader with hundreds of citations to papers and articles that will further enhance the reader ' s knowledge of this voluminous topic. Undergraduate students, graduate students, researchers and mechanical engineers will all benefit spectacularly from this comprehensive resource. The new edition includes new theories/methods of Kou and coworkers regarding:

- Predicting the effect of filler metals on liquation cracking
- An index and analytical equations for

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predicting susceptibility to solidification cracking · A test for susceptibility to solidification cracking and filler-metal effect · Liquid-metal quenching during welding · Mechanisms of resistance of stainless steels to solidification cracking and ductility-dip cracking · Mechanisms of macrosegregation · Mechanisms of spatter of aluminum and magnesium filler metals, · Liquation and cracking in dissimilar-metal friction stir welding, · Flow-induced deformation and oscillation of weld-pool surface and ripple formation · Multicomponent/multiphase diffusion bonding

Dr. Kou ' s Welding Metallurgy has been used the world over as an indispensable resource for students, researchers, and engineers alike. This new Third Edition is no exception.

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Describes the weldability aspects of structural materials used in a wide variety of engineering structures, including steels, stainless steels, Ni-base alloys, and Al-base alloys. 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

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susceptibility to various forms of weld cracking. 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 Illustrating the weldability aspects of structural materials used in a wide variety of engineering structures, Welding Metallurgy and Weldability provides engineers and students with the information needed to understand the basic concepts of welding metallurgy and to interpret the failures in welded components.

The Welding of Aluminium and its Alloys is a practical user's

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guide to all aspects of welding aluminium and aluminium alloys. It provides a basic understanding of the metallurgical principles involved showing how alloys achieve their strength and how the process of welding can affect these properties. The book is intended to provide engineers with perhaps little prior understanding of metallurgy and only a brief acquaintance with the welding processes involved with a concise and effective reference to the subject. It is intended as a practical guide for the Welding Engineer and covers weldability of aluminium alloys; process descriptions, advantages, limitations, proposed weld parameters, health and safety issues; preparation for welding, quality assurance and quality control issues along with problem solving. The book includes sections on parent metal storage and

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preparation prior to welding. It describes the more frequently encountered processes and has recommendations on welding parameters that may be used as a starting point for the development of a viable welding procedure. Included in these chapters are hints and tips to avoid some of the pitfalls of welding these sometimes-problematic materials. The content is both descriptive and qualitative. The author has avoided the use of mathematical expressions to describe the effects of welding. This book is essential reading for welding engineers, production engineers, production managers, designers and shop-floor supervisors involved in the aluminium fabrication industry. A practical user's guide by a respected expert to all aspects of welding of aluminium. Designed to be easily understood by the non-metallurgist

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whilst covering the most necessary metallurgical aspects  
Demonstrates best practice in fabricating aluminium structures

A concise and accessible guide to the knowledge required to fulfil the role of a welding inspector. In covering both European and US-based codes, the book gives those wishing to gain certification in welding inspection a basic all-round understanding of the main subject matter. A concise and accessible guide to the knowledge required to fulfil the role of a welding inspector Covers both European and US-based codes Gives those wishing to gain certification in welding inspection a basic all-round understanding of the main subject matter

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The Lab Manual for WELDING SKILLS, PROCESSES AND PRACTICES FOR ENTRY-LEVEL WELDERS: BOOK 1, 1st Edition, is a valuable tool designed to enhance your classroom experience. Lab activities, objectives, materials lists, step-by-step procedures, illustrations, review questions and more are all included.

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