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Welding Metallurgy. Sindo Kou. Wiley, 2003 - Science - 461 pages. 1 Review. ... An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. From inside the book . What people are saying - Write a review.

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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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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-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 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.

Modern gas turbine power plants represent one of the most efficient and economic conventional power generation technologies suitable for large-scale and smaller scale applications. Alongside this, gas turbine systems operate with low emissions and are more flexible in their operational characteristics than other large-scale generation units such as steam cycle plants. Gas turbines are unrivalled in their superior power density (power-to-weight) and are thus the prime choice for industrial applications where size and weight matter the most. Developments in the field look to improve on this performance, aiming at higher efficiency generation, lower emission systems and more fuel-flexible operation to utilise lower-grade gases, liquid fuels, and gasified solid fuels/biomass. Modern gas turbine systems provides a comprehensive review of gas turbine science and engineering. The first part of the book provides an overview of gas turbine types, applications and cycles. Part two moves on to explore major components of modern gas turbine systems including compressors, combustors and turbogenerators. Finally, the operation and maintenance of modern gas turbine systems is discussed in part three. The section includes chapters on performance issues and modelling, the maintenance and repair of components and fuel flexibility. Modern gas turbine systems is a technical resource for power plant operators, industrial engineers working with gas turbine power plants and researchers, scientists and students interested in the field. Provides a comprehensive review of gas turbine systems and fundamentals of a cycle Examines the major components of modern systems, including compressors, combustors and turbines Discusses the operation and maintenance of component parts

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