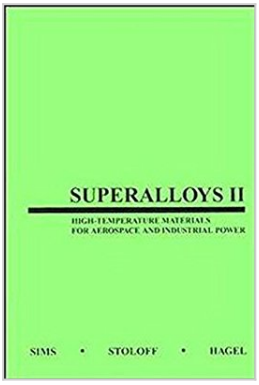

Superalloys II: High-Temperature Materials for Aerospace and Industrial Power

By Chester T. Sims, Norman S. Stoloff, William C. Hagel

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This is the first truly comprehensive review of the latest developments in the pursuit of superalloys since the publication, 15 years ago, of Superalloys, which quickly became the standard work in the field. The editors of this volume define superalloys as those alloys based on Group VIIIA-base elements developed for elevated temperature service (some of which operate at nearly 90% of their absolute melting temperature), which also demonstrate combined mechanical strength and surface stability. Topics covered include gas turbine design and superalloys, cobalt-base alloys, nickel-iron alloys, prediction of phase composition, high-temperature oxidation, wrought alloys, powder metallurgy, joining, alternative materials, and the future of superalloys. Contains appendixes of phase diagrams, superalloy data, and registered trademarks.

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Editorial Review

From the Publisher
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From the Back Cover
Superalloys II, Edited by Chester T. Sims, Norman S. Stoloff and William C. Hegel
The combined mechanical strength and surface stability of superalloys-Group VIIA-base elements developed for high-temperature performance-has made them a prime constituent of space age materials. This second edition of the standard industry reference examines its newest advances: the growth of powder metallurgy and the advent of directionally solidified and single-crystal superalloys. Methodical and complete, the text moves from a description of the genesis and character of superalloys to a discussion of basic alloy systems, their behavior, surface stability, process metallurgy, as well as a look at the future of superalloys, Graduate students in materials science and engineers in the design aerospace, and research and chemical processing industries will find Superalloys II an indispensable guide to the metals that are fast becoming a cornerstone of our technology.

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