DESCRIPTION

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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