

Superalloys II

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Superalloys II

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Norman S. Stoloff is the editor of Superalloys II: High-Temperature Materials for Aerospace and Industrial Power, published by Wiley. William C. Hagel is the editor of Superalloys II: High-Temperature Materials for Aerospace and Industrial Power, published by Wiley.

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Superalloys II: High-Temperature Materials for Aerospace ...

Superalloys II: High-Temperature Materials for Aerospace and Industrial Power. Chester T. Sims, Norman S. Stoloff, William C. Hagel. ISBN: 978-0-471-01147-7. 640 pages. September 1987. Description. This is the first truly comprehensive review of the latest developments in the pursuit of superalloys since the publication, 15 years ago, of ...

Wiley: Superalloys II: High-Temperature Materials for ...

@article{osti_5452409, title = {Superalloys II}, author = {Sims, C T and Stoloff, N S and Hagel, W C}, abstractNote = {Superalloys are those alloys based on Group VIIA-base elements developed for elevated temperature service in virtue of their combination of mechanical strength with surface stability in such corrosive environments as those of aircraft and industrial gas turbines, coal conversion plants, etc.

Superalloys II (Book) | OSTI.GOV

Superalloys are a group of nickel, iron-nickel and cobalt alloys used in jet engines. These metals have excellent heat resistant properties and retain their stiffness, strength, toughness and dimensional stability at temperatures much higher than the other aerospace structural materials.

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Beyond Nickel-Based Superalloys II | Proceedings ...

In 2006 a new L12 phase, Co₃(Al,W), was discovered in the Co-Al-W system which has led to the development of novel Co-base superalloys with g/gc microstructures similar to those of the well-established Ni-base superalloys. First investigations on simple ternary alloys could show that these Co-Al-W based alloys exhibit higher solidus temperatures and show less segregations after casting ...

"γ/γ' Co-base superalloys - new high temperature materials ...

The main GCP phase is γ'. Almost all superalloys are Ni-based because of this phase. γ' is an ordered L1₂ (pronounced L-one-two), which means it has a certain atom on the face of the unit cell, and a certain atom on the corners of the unit cell. For Ni-based superalloys, that usually means Ni on the faces and Ti or Al on the corners.

Superalloy - Wikipedia

Superalloys are based on nickel, cobalt or iron with large additions of alloying elements to provide strength, toughness and durability at high temperature. The control of the hot-working processes from the initial ingot breakdown procedures to the final forging of precision components is critical for the generation of consistent mechanical ...

Forged Nickel-Base Alloys - Superalloy Forgings | FRISA

@article{osti_5452409, title = {Superalloys II}, author = {Sims, C.T. and Stoloff, N.S. and Hagel, W.C.}, abstractNote = {Superalloys are those alloys based on Group VIIA-base elements developed for elevated temperature service in virtue of their combination of mechanical strength with surface stability in such corrosive environments as those of aircraft and industrial gas turbines, coal conversion plants, etc.

Superalloys II (Book) | OSTI.GOV

Superalloys have been developed using the face-centered cubic gamma matrix. During the World War II, enormous development of superalloys occurred (Sims, 1984).

Superalloys - an overview | ScienceDirect Topics

Superalloys II. Chester Thomas Sims, N. S. Stoloff, William C. Hagel. Wiley, 1987 - Technology & Engineering - 615 pages. 0 Reviews. 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 ...

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Superalloys II High-Temperature Materials for Aerospace ...

Abstract The term "superalloys" refers to a group of alloys that are capable of maintaining their mechanical characteristics after prolonged exposure to elevated temperatures. This category of material was primarily developed for applications such as turbo-superchargers and aircraft turbine engines.

Superalloys | SpringerLink

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