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@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 VIIIA-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.

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Superalloys - an overview | ScienceDirect Topics
@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 VIIIA-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.

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(After C. T. Sims, N. S. Stoloff, and W. C. Hagel, eds., Superalloys II, John Wiley and Sons, 1987). Single-crystal superalloys (SC superalloys) are formed as a single crystal using a modified version of the directional solidification technique, so there are no grain boundaries in the material.

Superalloy | Metallurgy for Dummies
A superalloy, or high-performance alloy, is an alloy with the ability to operate at a high fraction of its melting point. Several key characteristics of a superalloy are excellent mechanical strength, resistance to thermal creep deformation, good surface stability, and resistance to corrosion or oxidation.

Superalloy - Wikipedia
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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.

Superalloys II: High-Temperature Materials for Aerospace ...
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/g¢ 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 ...

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

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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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