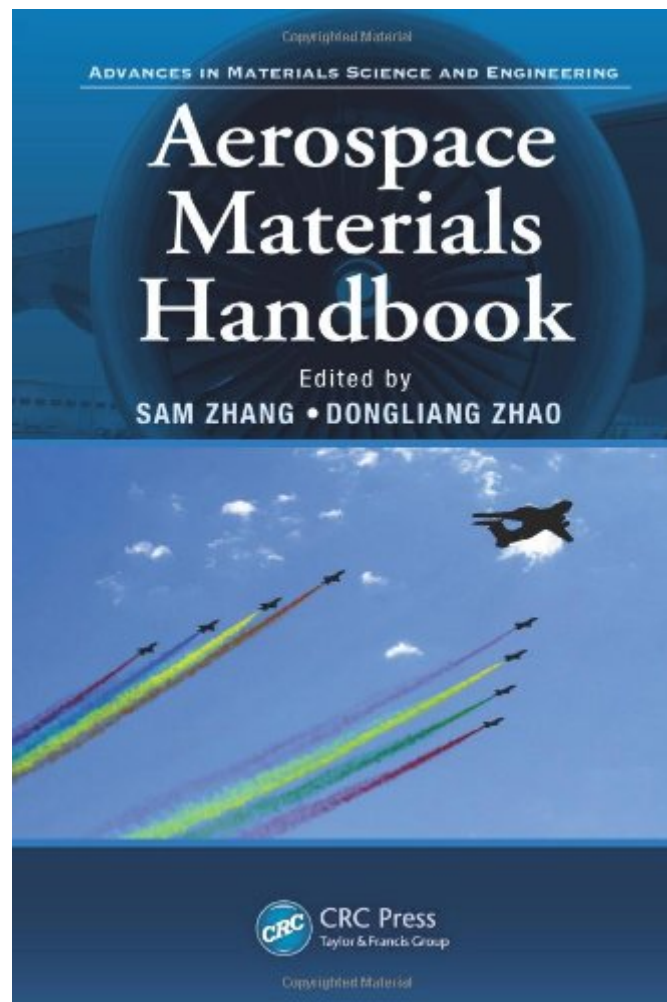


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The chapters address developments in bulk materials, coatings, traditional materials, and new

materials. Beginning with an overview of superalloys, including nickel-, nickel–iron-, and cobalt-based superalloys, the text covers machining, laser cladding and alloying, corrosion performance, high-temperature oxidation, thermal spraying, and nanostructured coatings. It also includes four categories of composites used in aerospace: metal matrix, polymer, carbon nanotube-reinforced polymer, and self-healing composites. The text describes preparation, processing, and fatigue of lightweight magnesium alloys, as well as an exciting new class of materials? aerogels.

This book brings readers to the cutting edge of research in materials for aerospace and aeronautics. It provides an entry point into this field and presents details to stimulate future research. This unique, up-to-date resource offers knowledge to enable practitioners to develop faster, more efficient, and more reliable air- and spacecraft.

Aerospace Materials Handbook (Advances in Materials Science and Engineering) Review

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