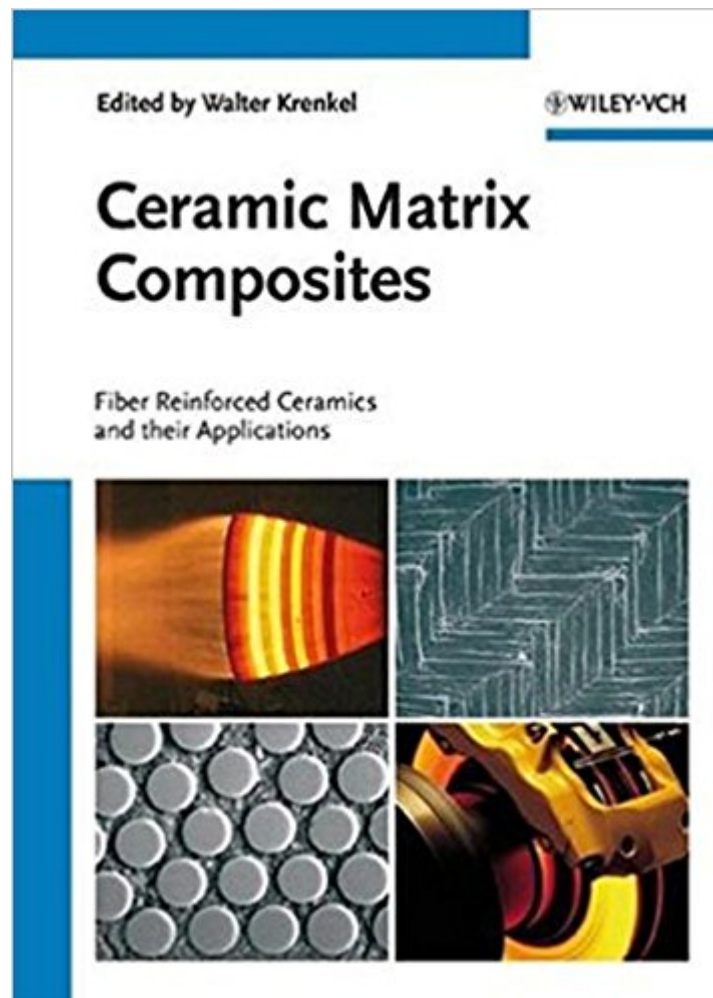




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Ceramic Matrix Composites: Fiber Reinforced Ceramics And Their Applications



Synopsis

Covering an important material class for modern applications in the aerospace, automotive, energy production and creation sectors, this handbook and reference contains comprehensive data tables and field reports on successfully developed prototypes. The editor and authors are internationally renowned experts from NASA, EADS, DLR, Porsche, MT Aerospace, as well as universities and institutions in the USA, Europe and Japan, and they provide here a comprehensive overview of current R & D with an application-oriented emphasis.

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Ceramic matrix composites represent a new class of non-brittle refractory materials for harsh and extreme environments, characterized by high thermal stability, corrosion resistance and strength-to-weight ratio. This makes them predestined for use in aerospace, ground transportation, mechanical engineering and power generation. The editor and authors of this handbook are renowned experts from EADS, MT Aerospace, NASA, Porsche, Schunk and Snecma, as well as research institutes in Europe, the USA and Japan, who provide here a comprehensive overview of the current status of CMCs, focusing on applications. A valuable information source for scientists, engineers and technicians, as well as students, and a general reference for professionals in materials science and engineering.

Walter Krenkel holds the Chair of Ceramic Materials at the University of Bayreuth, Germany, where

he also heads the Ceramic Composites Group at the Fraunhofer-Gesellschaft. He gained his PhD in aeronautics and aerospace from the University of Stuttgart, and was formerly Head of Ceramic Composite Structures and of the Center of Excellence Lightweight CMC Structures at the German Aerospace Center. He is a Fellow of the American Ceramic Society, and serves on the scientific and advisory boards of many international conferences, workshops and technology exchange forums worldwide. Professor Krenkel's research focuses on the development and qualification of CMCs and other novel ceramics.

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