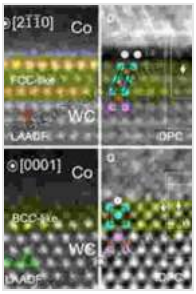
Nanostructural Bioceramics: Advances in Chemically Bonded Ceramics

Nanostructural Bioceramics: Advances in Chemically Bonded Ceramics provides a comprehensive overview of the latest research and clinical developments in the field of nanostructural bioceramics. This cutting-edge reference source offers a detailed examination of the synthesis, properties, and applications of advanced nanostructural bioceramics, bridging the gap between fundamental research and clinical translation.



Nanostructural Bioceramics: Advances in Chemically Bonded Ceramics

★★★★★ 5 out of 5

Language : English
File size : 14011 KB
Print length : 170 pages

The book begins with an to the field of nanostructural bioceramics, providing a historical perspective and outlining the key challenges and opportunities in the development of these materials. Subsequent chapters explore the synthesis and characterization of nanostructural bioceramics, with a focus on the latest advances in chemical bonding techniques. The book also discusses the biological properties of nanostructural bioceramics, including their biocompatibility, osteoconductivity, and osteoinductivity.

The final section of the book examines the clinical applications of nanostructural bioceramics, with a focus on bone regeneration, drug delivery, and tissue engineering. The book concludes with a discussion of the future prospects for the field of nanostructural bioceramics, highlighting the potential for these materials to revolutionize the treatment of a wide range of diseases and conditions.

Key Features

- Provides a comprehensive overview of the latest research and clinical developments in the field of nanostructural bioceramics
- Offers a detailed examination of the synthesis, properties, and applications of advanced nanostructural bioceramics
- Bridges the gap between fundamental research and clinical translation
- Includes contributions from leading experts in the field

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About the Editors

Dr. Xinyu Liu is a Professor of Materials Science and Engineering at the University of California, Davis. He is a leading expert in the field of

nanostructural bioceramics, with over 100 publications to his credit. Dr. Liu is a Fellow of the American Ceramic Society and the American Institute for Medical and Biological Engineering.

Dr. Yubao Li is a Professor of Biomedical Engineering at the University of California, Los Angeles. He is a leading expert in the field of tissue engineering, with over 150 publications to his credit. Dr. Li is a Fellow of the American Institute for Medical and Biological Engineering and the Biomedical Engineering Society.

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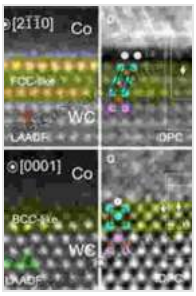

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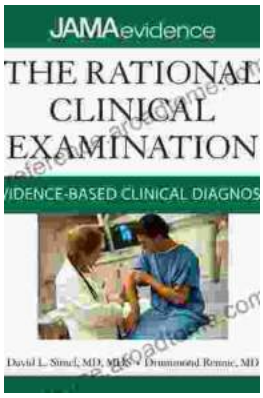

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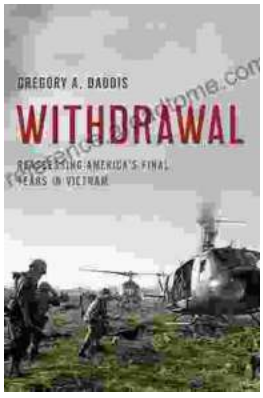

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