



# **Biological and Biomedical Coatings Handbook: Applications (Advances in Materials Science and Engineering)**

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# Biological and Biomedical Coatings Handbook: Applications (Advances in Materials Science and Engineering)

## Biological and Biomedical Coatings Handbook: Applications (Advances in Materials Science and Engineering)

Written in a versatile, contemporary style that will benefit both novice and expert alike, **Biological and Biomedical Coatings Handbook, Two-Volume Set** covers the state of the art in the development and implementation of advanced thin films and coatings in the biological field.

Consisting of two volumes—*Processing and Characterization* and *Applications*—this handbook details the latest understanding of advances in the design and performance of biological and biomedical coatings, covering a vast array of material types, including bio-ceramics, polymers, glass, chitosan, and nanomaterials. Contributors delve into a wide range of novel techniques used in the manufacture and testing of clinical applications for coatings in the medical field, particularly in the emerging area of regenerative medicine.

Building on the theoretical and methodological fundamentals of coatings as presented in the first volume, *Applications* covers:

- Biological/biomedical implants and other applications of carbon-based materials
- Control of drug release from coatings
- Microfluidic and biosensing/bioactive coatings and applications
- Surfaces and coatings of orthopedic, dental, and other implants
- Sol-gel-derived hydroxyapatite coatings on metallic implants
- Impedance spectroscopy

With chapters authored by world experts at the forefront of research in their respective areas, this timely set provides searing insights and practical information to explore a subject that is fundamental to the success of biotechnological pursuits.

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