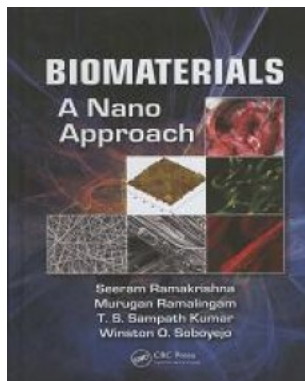


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Título: Biomaterials a Nano Approach

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Editorial: **Año:** 2010

Tema: **Edición:** 1^a

Sinopsis **ISBN:** 9781420047813

There are several well-known books on the market that cover biomaterials in a general way, but none provide adequate focus on the future of and potential for actual uses of emerging nanotechnology in this burgeoning field.

Biomaterials: A Nano Approach is written from a multi-disciplinary point of view that integrates aspects of materials science and engineering, nanotechnology, bioengineering, and biosciences. The book fills a glaring void in the literature by providing a comprehensive discussion of biomaterials and a scientifically plausible extrapolation of likely scenarios in which nanotechnology could play a significant role. The authors introduce and examine basic concepts, processing methodologies, and techniques involved in the preparation and characterization of nanobiomaterials that are specific to biomedical applications.

Spanning from the historical development of biomaterials to cutting-edge advances in the field, the text describes how basic concepts in nanotechnology are applied to the processing of novel nanobiomaterials, including nanostructured metals and alloys. With its illustrative examples and presentation of applications, this text offers a solid framework for understanding present and future trends of biomaterials in human healthcare systems. It is an ideal companion resource for students, researchers, and industrial scientists who specialize in biomaterials and nanobiomaterials.

About the Author

Dr. Seeram Ramakrishna is a professor of Mechanical Engineering and Bioengineering at the National University of Singapore (NUS). He is also Vice-President (Research Strategy) of NUS. He is the founding co-director of NUS Nanoscience & Nanotechnology Initiative (NUSNNI). His current research interests include biomaterials, tissue engineering and nanotechnology. He is advancing the materials science, manufacturing technology, and design aspects of nanobiomaterials to realize their full potential in human health care. His research output appeared in over 400 publications. The ISI Essential Science Indicators (ESI) places him among the top

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110 materials scientists in the world based on citations. These include several peer-reviewed journal publications, book chapters, books and patents. He is board member of fifteen international journals. He is a scientific advisory board member to biomedical companies, Stem Life and Biomers International.

Dr. Murugan Ramalingam is a NRC Associate at the National Institute of Standards and Technology (NIST), USA, working under the United States National Research Council's joint NIH/NIST program. He joined the NIST after completion of postdoctoral training at the Nano Science and Technology Center (NSTC), University of Central Florida, USA. His main research interests are the development of multiphase biomaterials, through conventional to biomimetics and tissue engineering approaches. He has authored several peer-reviewed journal articles, book chapters, and patents relevant to micro-/nano-biomaterials.

Dr. T.S. Sampath Kumar is an associate professor of Metallurgical and Materials Engineering at the Indian Institute of Technology Madras, India. His research interests are on nanobioceramics, functionally graded biomaterials, novel ceramic coatings and ceramic based drug delivery systems. He is currently the Secretary of the Society for Biomaterials and Artificial Organs-India (SBAOI). He is the associate editor of the SBAOI journal of "Trends in Biomaterials and Artificial Organs-India" during 2002-2005, and continues to be on its editorial board since 1991. He has published 3 issues of this journal and an issue of the "Transactions of the Indian Institute of Metals" journal as a guest editor.

Wole Soboyejo received his Bachelor of Science degree in Mechanical Engineering from King's College London in 1985, and a Ph.D. in materials science from Cambridge University in 1988. He then worked as a research scientist at the McDonnell Douglas Research Labs from 1988 until 1992. He worked briefly as a Principal Research Engineer at the Edison Welding Institute before joining the faculty in the department of materials science and engineering at The Ohio State University in 1992. He was a Visiting Martin Luther King Associate Professor in the departments of mechanical engineering and materials science and engineering at MIT from 1997 to 1998. In 1999, he moved to Princeton University as a professor of mechanical and aerospace engineering, and a faculty member in the Princeton Institute of Science and Technology of Materials (PRISM). He is the recipient of 2 National Young Investigator Awards (NSF and ONR), the Lumley Research Award of the Ohio State University and the Bradley Stoughton Award for young teachers of materials science. Professor Soboyejo is a Fellow of ASME and the Nigerian Academy of Science. He has published 250 journal papers and a textbook on the Mechanical Properties of Engineered Materials. He has also edited a recent text on Advanced Structural Materials and 18 special issues of journals/conference proceedings.

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