

Donald M. Brunette, University of British Columbia, Vancouver, Canada;
Pentti Tengvall, Linköping University, Linköping, Sweden;
Marcus Textor, Swiss Federal Institute of Technology, Zürich, Switzerland;
Peter Thomsen, Göteborg University, Göteborg, Sweden

Titanium in Medicine

Material Science, Surface Science, Engineering, Biological Responses and Medical Applications

2001. Approx. 1000 pp. 391 figures (42 in color), stereoscopic view of surfaces (red/green spectacles provided with book), compilation of web-site addresses, extended index. (Engineering Materials)
Hardcover * DM 398,-; £ 137,50; FF 1500,-; Lit. 439.560; sFr 343,-
ISBN 3-540-66936-1

ABOUT THIS BOOK

This comprehensive book provides state-of-the-art scientific and technical information in a clear format and consistent structure making it suitable for formal course work or self-instruction. The authors are drawn not only from academic institutions but also from industry, so that practical aspects of implant fabrication and material handling are covered that are often lacking in biomaterials texts. Besides readers with a general interest in biomaterials, the book will interest materials investigators, surgeons and dentists using titanium implants, medical scientists and engineers, as well as lecturers at universities or institutes who would benefit by having ready access to authoritative information on the use of titanium for implants, devices and instruments. More information: <http://www.titaniuminmedicine.com>.

CONTENT

B.D. Ratner on *Biocompatibility*; D.F. Williams on *Medical Applications*; H.L. Freese et al. on *Metallurgy*; P. Filip on *Shape Memory Alloys*; M. Textor et al. on *Surface Characterization* and on *Oxide Films*; R. Schenk on *Corrosion Properties*; J. Lausmaa on *Surface Treatments*; L.-D. Piveteau on *Sol-Gel Coatings*; R. Thull and D. Grant on *Vapor Deposited Coatings*; N.A.F. Jaeger et al. on *Microfabricated Surfaces*; H. Gruner on *Thermal Spray Coatings*; S.-J. Xiao et al. on *Biochemical Surface Modifications*; P. Tengvall on *Proteins at Titanium Interfaces*; D.M. Brunette on *Cell-Surface Interactions*; P. Thomsen et al. on *Titanium in Soft Tissues* and on *Titanium-Bone Interface In Vivo*; B.D. Boyan et al. on *Titanium-Bone Cell Interface In Vitro*; E. Wintermantel et al. on *Titanium Ceramics*; B. Gasser on *Design and Engineering Criteria*; M. Windler et al. on *Titanium for Hip and Knee Prostheses*; H.A. McKellop et al. on *Wear in Joint Replacements*; O.E.M. Pohler et al. on *Osteosynthesis Applications*; M. Esposito and D. Buser on *Dental Applications*; Ch. Olin on *Cardiac and Cardiovascular Applications*; K.-M. Holgers et al. on *Audiological Applications*; K.-G. Strid on *Regulatory Aspects*.

Due July 2001

* Recommended retail price

- Please bill me
 Please charge my credit card
 Visa/Barclaycard/Americard
 Eurocard/Access/Mastercard
 American Express
Number: _____ Valid until: _____

Yes, please send me

___ copies: Brunette et al.,
Titanium in Medicine
ISBN 3-540-66936-1
* DM 398,-

Springer
Customer Service
Haberstr. 7
69126 Heidelberg
Germany

Fax: + 49 (0) 6221 / 345 229
Email: orders@springer.de