Materials in Sports Equipment

By Mike Jenkins, Aleksandar Subic

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Volume 1 presents the latest research, from a distinguished panel of international contributors, into the chemical structure and composition, microstructure and material processing of the various materials used in a wide range of sports. The relationship between performance and design is examined in detail for each sport covered.

Part one concentrates on the general use of materials in sports. Here, the reader is given a broad insight into the overall influence of materials in sports, and the significance of material processing and design. Part two focuses on showing how individual sports have benefited from recent improvements in material technology. It also analyses the way in which improvements in our understanding of biomechanics and the engineering aspects of sports equipment performance have influenced materials and design. Sports whose equipment is considered in detail include: golf, tennis, cycling, mountaineering, skiing, cricket and paralympic sports. The overall aim of the book is to make the reader aware of the interaction between the type of material, its selection, processing and surface treatment, and show how this process underpins the performance of the final sporting product.

The first volume of Materials in sports equipment has become an essential reference describing improvements in materials technology and their impact on equipment in a range of sports. The second volume combines coverage of recent developments in advanced materials and their application in a number of sports not covered in Volume one.

volume two discusses general issues such as modelling of materials behaviour in sports equipment, non-destructive testing methods, materials and design for sports apparel and mouth and skull protection. Part two analyses the materials and design of equipment used for specific sports: baseball, snowboarding, ice hockey, fly fishing, archery and rowing. The book also reviews design and materials in athletics and fitness equipment.

- A major handbook on materials in sports
- Practical guide to material selection and processing for equipment used in many popular sports
- Reviews recent developments in advanced materials and their applications in a

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Editorial Review

Review
…an excellent resource for all those individuals interested in the development and application of advanced sports materials. …technologies and theories behind such equipment is clearly explained and illustrated., Carbohydrate Polymers (Review for Volume 1)
…an essential reference describing improvements in materials technology and their impact on equipment in a range of sports., Future Materials (Review for Volume 2)

About the Author
Mike Jenkins is a Senior Lecturer in the School of Engineering at the University of Birmingham, UK. Dr Jenkins has published widely in the field of polymers.

Professor Aleksandar Subic is the Chair of Mechanical Design and Head of Mechanical and Automotive Engineering at RMIT University in Melbourne, Australia. He is currently the Chairman of the International Sports Engineering Association (ISEA) and Editor-in-Chief of the International Journal of Sustainable Design. Professor Subic is internationally respected for his research in the field of sports engineering.

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