



The Science and Engineering of Sport Surfaces (Routledge Research in Sports Technology and Engineering)

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Sports surface design is crucial for the successful performance of sports skills and the reduction of injury risk. Surfaces have developed from natural materials such as turf, clay and cinder, to synthetic surfaces such as acrylic tennis courts, artificial turf for soccer and synthetic running tracks, while our understanding of natural turf has developed in terms of properties appropriate for different sports and surface sustainability. This book draws together the very latest research on biomechanical, medical and engineering approaches to the study of sports surfaces.

Written by a team of leading international sport scientists, engineers and technologists, the book covers every key aspect of surface development and design, including:

- surface behaviour
- surface classification, function, construction and maintenance
- influence of surfaces on player performance and injury
- surface test methods and monitoring
- development of natural turf and synthetic surfaces
- shoe-turf interaction
- future developments in sports surface technology.

Representing the most comprehensive and up-to-date study of sports surfaces, this book is important reading for all researchers and professionals working in sports technology, sports engineering, biomechanics or sports medicine.

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