



BIOMECHANICAL EVALUATION OF MOVEMENT IN SPORT AND EXERCISE

The British Association of Sport and Exercise Sciences Guidelines

EDITED BY **CARL J. PAYTON** AND **ROGER M. BARTLETT**



CONTENTS

<i>List of tables and figures</i>	vii
<i>Notes on contributors</i>	xiii
1 Introduction	1
ROGER M. BARTLETT	
2 Motion analysis using video	8
CARL J. PAYTON	
3 Motion analysis using on-line systems	33
CLARE E. MILNER	
4 Force and pressure measurement	53
ADRIAN LEES AND MARK LAKE	
5 Surface electromyography	77
ADRIAN BURDEN	
6 Isokinetic dynamometry	103
VASILIOS BALTZOPOULOS	
7 Data processing and error estimation	129
JOHN H. CHALLIS	
8 Research methods: sample size and variability effects on statistical power	153
DAVID R. MULLINEAUX	
9 Computer simulation modelling in sport	176
MAURICE R. YEADON AND MARK A. KING	

Appendix 1: The British Association of Sport and Exercise Sciences—code of conduct	207
Appendix 2: On-line motion analysis system manufacturers and their websites	213
<i>Index</i>	215