

1. Record Nr.	UNINA9910254277003321
Autore	Mathai A.M
Titolo	Fractional and Multivariable Calculus : Model Building and Optimization Problems // by A.M. Mathai, H.J. Haubold
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-59993-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIII, 234 p. 7 illus.)
Collana	Springer Optimization and Its Applications, , 1931-6828 ; ; 122
Disciplina	515.83
Soggetti	Mathematical models Mathematical optimization Functions, Special Integral transforms Calculus, Operational Mathematical Modeling and Industrial Mathematics Optimization Special Functions Integral Transforms, Operational Calculus
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Essential of Fractional Calculus -- 2. Multivariable Calculus -- 3. Deterministic Models and Optimization -- 4. Non-deterministic Models and Optimization -- 5. Optimal Regression Designs. --Index.
Sommario/riassunto	This textbook presents a rigorous approach to multivariable calculus in the context of model building and optimization problems. This comprehensive overview is based on lectures given at five SERC Schools from 2008 to 2012 and covers a broad range of topics that will enable readers to understand and create deterministic and nondeterministic models. Researchers, advanced undergraduate, and graduate students in mathematics, statistics, physics, engineering, and biological sciences will find this book to be a valuable resource for finding appropriate models to describe real-life situations. The first chapter begins with an introduction to fractional calculus moving on to discuss fractional integrals, fractional derivatives, fractional differential equations and

their solutions. Multivariable calculus is covered in the second chapter and introduces the fundamentals of multivariable calculus (multivariable functions, limits and continuity, differentiability, directional derivatives and expansions of multivariable functions). Illustrative examples, input-output process, optimal recovery of functions and approximations are given; each section lists an ample number of exercises to heighten understanding of the material. Chapter three discusses deterministic/mathematical and optimization models evolving from differential equations, difference equations, algebraic models, power function models, input-output models and pathway models. Fractional integral and derivative models are examined. Chapter four covers non-deterministic/stochastic models. The random walk model, branching process model, birth and death process model, time series models, and regression type models are examined. The fifth chapter covers optimal design. General linear models from a statistical point of view are introduced; the Gauss–Markov theorem, quadratic forms, and generalized inverses of matrices are covered. Pathway, symmetric, and asymmetric models are covered in chapter six, the concepts are illustrated with graphs. .

2. Record Nr.	UNINA9910447258903321
Titolo	Coaching for Human Development and Performance in Sports // edited by Rui Resende, A. Rui Gomes
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-63912-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource : color illustrations
Disciplina	796.077
Soggetti	Positive psychology Sports - Sociological aspects Psychological consultation Developmental psychology Sports - Psychological aspects Positive Psychology Sport Sociology Consulting Developmental Psychology Sport Psychology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Coaching: Definition and Conceptualization; John Lyle and Julian North -- Chapter 2. Coach Education: How Coaches Learn to Coach; Pierre Trudel, Michel Milisted and Diane Culver -- Chapter 3. Coach Efficacy: Setting the Philosophy of Coaching; Rui Gomes and Rui Resende -- Chapter 4. How to be an Effective Coach: An Interpersonal Approach; Jennifer Turnnidge, Veronica Allen and Jean Côté -- Chapter 5. Developing the Coach Developer; Masamitsu Ito and John Alder -- Chapter 6. Coaching Education around the World: Being a Professional; Sergio Lara Bercial and John Bales -- Chapter 7. Coach Professionn: Acting as a Coach; Paul Potrac and Cliff Mallett -- Chapter 8. Coaching Young Athlets; Gordon Bloom -- Chapter 9. Coaching Adult Athletes; Bettina Callary, Brad Young and Scott Rathwell -- Chapter 10. Coaching Professional Athletes; Steven Rynne -- Chapter 11. Coaching for Sport

Participation; Rui Resende and Rui Gomes -- Chapter 12. Coaching for Aging; Tania Cassidy, Diana Culver and Bettina Callary -- Chapter 13. Coaching Athletes with Disabilities; Andrea Faull -- Chapter 14. Coaching for Adventures Sport; Vinicius Brasil and Valmor Ramos -- Chapter 15. Coaching Cohesive Teams; Todd M. Loughhead -- Chapter 16. Coaching Life Skills in Sport; Martin I. Jones -- Chapter 17. Coaching and Gender Issues; Diana Culber and Guylaine Demers -- Chapter 18. Coaching Efficacy and the Use of Technology; Lee Nelson -- Chapter 19. Coach the Coach; Andy Gillham and Pete Van Mullem -- Chapter 20. Stress and Burnout in Coaching; Göran Kenttä -- Chapter 21. A Research Agenda for Studying Sports Coaching: Implications for Coaching Education and Practice -- Chapter 22. Research Agenda for Studying Sports Coaching: Implications for Research Design; Brett Smith. .

Sommario/riassunto

This book addresses important topics of coaching in order to better understand what sports coaching is and the challenges that arise when assuming this activity. It provides the reader with useful insights to the field of sports coaching, and discusses topics such as coaching education, areas of intervention, and main challenges. With contributions by experts and well-known authors in the field, this volume presents an up-to-date picture of the scholarship in the coaching field. It introduces key aspects on the future of the science of coaching and provides coach educators, researchers, faculty, and students with new perspectives on topics within the field to help improve their coaching effectiveness. .
