Record Nr. UNINA9910783988703321 Autore Kornexl E Titolo Science and Skiing [[electronic resource]] Hoboken,: Taylor and Francis, 2013 Pubbl/distr/stampa **ISBN** 1-135-81811-8 0-203-23723-4 1-280-04977-4 0-203-47617-4 1-135-81810-X 9786610049776 Descrizione fisica 1 online resource (641 p.) Altri autori (Persone) MullerE RaschnerC SchwamederH Disciplina 796.93015 Soggetti Skis and skiing - Congresses Sports sciences - Congresses Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di contenuto Science and Skiing; Copyright; Contents; Introduction; Part One: Biomechanics of Skiing; 1 Ski-jumping take-off performance: Determining factors and methodological advances; 2 Load on the locomotor system during skiing. A biomechanical perspective; 3 Biomechanics of ski-jumping-scientific jumping hill design; 4 Joint power production in take-off action during ski-jumping; 5 Inter- and intra-individual variability of the ski-jumper's take-off; 6 Inverse dynamic analysis of take-off in ski-jumping; 7 Effects of 50 km racing on ski skating kinematics in the falun world championship 1993 8 Management of the sport training process with cross-country ski runners through modern apparatus methods and means9 A mathematical method for the analysis of trajectories in giant slalom; 10 Simulation techniques applied to skiing mechanics; 11 Turning the skis

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## Sommario/riassunto

The first International Congress on Science and Skiing was held in Austria in January 1996. The main aim of the conference was to bring together original key research in this area and provid an essential update for those in the field. The lnk between theory and practice was also addressed, making the research more applicable for both researchers and coaches. This book is divided into five parts, each containing a group of papers that are related by theme or disciplineary approach. They are as follows: Biomechanics of Skiing; Fitness testing and Training in Skiing; Movement Control and P