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NSCA'S ESSENTIALS OF SPORT SCIENCE

Human Kinetics Publishers NSCA's Essentials of Sport Science provides the most contemporary and comprehensive overview of the field of sport science and the role of the sport scientist. It is a primary preparation resource for the Certified Performance and Sport Scientist (CPSS) certification exam.

ESSA'S STUDENT MANUAL FOR HEALTH, EXERCISE AND SPORT ASSESSMENT

Elsevier Health Sciences ESSA's Student Manual for Health, Exercise and Sport assessment is an essential text for students and exercise clinicians wishing to accredit with ESSA as exercise scientists. Written by former ESSA President Jeff Coombes and clinical exercise physiologist Tina Skinner, this book provides everything students need to achieve competency in ESSA Standard 7, Health Exercise and Sport Assessment. It contains in-depth and well-articulated methodology for all tests, data recording tables and normative values, and case study analyses. Each of the 21 chapters addresses key health and fitness assessments used to evaluate health, fitness and performance. With easy-to-follow practicals throughout, this book has been updated to reflect current best practice and recent advances such as wearable devices and smartphone apps. Endorsed by Exercise and Sports Science Australia (ESSA) Aligned with National University Course Accreditation Program criteria Practical data recording tables Australian-specific population normative data tables End of chapter discussion questions to apply knowledge to different case scenarios Traditional and contemporary gold standard tests that are valid and reliable Detailed, easy to follow step-by-step protocols An eBook included in all print purchases Additional resources on Evolve eBook on VitalSource Instructor resources: Image Collection Testbank Student resources: Case studies Additional Laboratory Assignments Criteria Sheets Data recording template New Static and Dynamic Posture practical New Test Accuracy, Reliability and Validity practical New activities reflecting recent advances in the field Increased focus on the interpretation, feedback and discussion of the data collected during the assessment with the participant

BUILDING A DEDICATED GSM GPS MODULE TRACKING SYSTEM FOR FLEET MANAGEMENT

HARDWARE AND SOFTWARE

CRG Press This book shows how to build a "INFelecPHY GPS Unit" (IEP-GPS) tracking system for fleet management that is based on 3G and GPRS modules. This model should provide reliability since it deals with several protocols: 1) HTTP and HTTPS to navigate, download and upload in real time the information to a web server, 2) FFTP and FTTPS to handle in a non-real time the files to the web application, and 3) SMTP and POP3 to send and receive email directly from the unit in case of any alert. Similar to a mobile device, but without screen for display, it is multifunctional because it links to a GPRS module, a camera, a speaker, headphone, a keypad and screen.

15295:TFK: NONFICTION READERS:UPPER EMERGENT:ASSESSMENT GUIDE BOOK

Teacher Created Materials

HUMAN-COMPUTER INTERACTION. INTERACTION TECHNIQUES AND NOVEL APPLICATIONS

THEMATIC AREA, HCI 2021, HELD AS PART OF THE 23RD HCI INTERNATIONAL CONFERENCE, HCII 2021, VIRTUAL EVENT, JULY 24-29, 2021, PROCEEDINGS, PART II

Springer Nature The three-volume set LNCS 12762, 12763, and 12764 constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 23rd International Conference on Human-Computer Interaction, HCI 2021, which took place virtually in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. The 139 papers included in this HCI 2021 proceedings were organized in topical sections as follows: Part I, Theory, Methods and Tools: HCI theory, education and practice; UX evaluation methods, techniques and tools; emotional and persuasive design; and emotions and cognition in HCI Part II, Interaction Techniques and Novel Applications: Novel interaction techniques; human-robot interaction; digital wellbeing; and HCI in surgery Part III, Design and User Experience Case Studies: Design case studies; user experience and technology acceptance studies; and HCI, social distancing, information, communication and work

INTRODUCTION TO PHYSICAL EDUCATION, FITNESS, AND SPORT

Human Kinetics This revised text offers five new chapters and substantial updates throughout as it explores various careers in physical activity fields. Students learn about concepts, programs, and professions in physical education, fitness, sport, recreation, dance, and health education. They also learn about problems in those fields--and how to provide solutions.

THE ESSENTIAL GUIDE TO FITNESS

Cengage AU Essential Guide to Fitness for the Fitness Instructor addresses SIS30315 - Certificate III in Fitness. The text is mapped to all core units and 12 electives of the qualification, and contains rich foundation content on Anatomy, Physiology, and Nutrition, as well as Fitness orientation, programming, WHS and equipment. The structure of the text highlights learning outcomes and contains an abundance of application cases, activities and quizzes. Strong content on fitness for specific markets and populations supports the volume of learning for the core unit Recognise and apply exercise considerations for specific populations, including chapters on older populations, a NEW chapter on children and adolescents, community fitness, and facilitating groups. Coverage on gym programs, group exercise, water-based fitness, and endurance training introduces students to the instruction of these varied types of fitness training. Premium online teaching and learning tools are available on the MindTap platform. Learn more about the online tools cengage.com.au/mindtap

SCHOOL NURSING

A COMPREHENSIVE TEXT

F.A. Davis Produced in cooperation with the National Association of School Nurses, this text includes comprehensive coverage of the multiple facets of school nursing—from the foundations of practice and the roles and functions of a school nurse through episodic and chronic illness and behavioral issues, to legal issues and leading and managing within school settings. Written and edited by school nurses and pediatric experts, it features real-world-tested, best practices based on evidence and experience. There's content here that you won't find in other books, such as health assessments, individualized health plan development, mental health conditions including adolescent depression, contemporary legal issues, and current policy statements essential to school nursing.

SPORT PEDAGOGY

AN INTRODUCTION FOR TEACHING AND COACHING

Routledge Sport Pedagogy offers an essential starting point for anyone who cares about sport, education and young people. It offers invaluable theoretical and practical guidance for studying to become an effective teacher or coach, and for anyone who wants to inspire children and young people to engage in and enjoy sport for life. The book also focuses on you as a learner in sport, prompting you to reflect critically on the ways in which your early learning experiences might affect your ability to diagnose the learning needs of young people with very different needs. Sport Pedagogy is about learning in practice. It refers both the ways in which children and young people learn and the pedagogical knowledge and skills that teachers and coaches need to support them to learn effectively. Sport pedagogy is the study of the place where sport and education come together. The study of sport pedagogy has three complex dimensions that interact to form each pedagogical encounter: Knowledge in context - what is regarded as essential or valuable knowledge to be taught, coached or learnt is contingent upon historical, social and political contextual factors that define practice; Learners and learning -at the core of sport pedagogy is expertise in complex learning theories, and a deep understanding of diversity and its many impacts on the ways in which young learners can learn; Teachers/teaching and coaches/coaching - effective teachers and coaches are lifelong learners who can harness the power of sport for diverse children and young people. Gaining knowledge and understanding of the three dimensional concept of sport pedagogy is the first step towards ensuring that the rights of large numbers of children and young people to effective learning experiences in and through sport are not denied. The book is organised into three sections: background and context; young people as diverse learners; the professional responsibility of teachers and coaches. Features of each chapter include: research extracts, 'comments' to summarise key points, individual and group learning tasks, suggested resources for further reading, and reference lists to enable you to follow-up points of interest. This book provides you with some of the prior knowledge you need to make best use of teaching materials, coaching manuals and other resources. In so doing you, as a teacher or coach, will be well placed to offer an effective and professional learning service to children and young people in sport.

SPORTS NUTRITION

A PRACTICE MANUAL FOR PROFESSIONALS

American Dietetic Associati The newest edition of this classic reference has been thoroughly re-designed to deliver the essential information health and fitness professionals need in order to work with athletes of all ages and proficiency levels. Topics are represented in four sections: Sports Nutrition Basics, Screening and Assessment, Sports Nutrition Across the Life Cycle and Sport Specific Guidelines. the At-A-Glance feature provides sport-specific information for 18 sports.

ACSM'S COMPLETE GUIDE TO FITNESS & HEALTH

Human Kinetics Here is the ultimate resource for maximizing your exercise and nutrition efforts. In this new edition of ACSM's Complete Guide to Fitness & Health, you have an authoritative reference that allows you to apply research-based guidance to your unique health and fitness needs. With a focus across the life span, this resource shows you how to pursue optimal health and fitness now and throughout the years to come. The American College of Sports Medicine, the largest and most respected sport science and medicine organization in the world, has created this book to bridge the gap between science and the practice of making personal lifestyle choices that promote health. This new edition contains age-specific advice within the framework of the latest research, thus helping you to avoid the lure of fads, unfounded myths, and misinformation. You will learn these strategies: • Incorporate the latest guidelines for physical activity and nutrition into your daily routine to improve your fitness and overall health. • Optimize your weight and increase strength, flexibility, aerobic fitness, and functional fitness. • Improve health and manage conditions such as diabetes, cardiovascular disease, cancer, depression, osteoporosis, arthritis, pregnancy, and Alzheimer's disease through exercise and nutrition. • Monitor, evaluate, and tailor your exercise program for optimal results. Featuring step-by-step instructions and full-color photos for the most effective exercises, sample workouts, practical advice, age-specific physical activity and dietary guidelines, and strategies for incorporating exercise and healthy nutrition choices into even the busiest of lifestyles, ACSM's Complete Guide to Fitness & Health is a resource that belongs in every fitness enthusiast's library.

RESEARCH IN SPORT CLIMBING

Frontiers Media SA

PHYSICAL BEST ACTIVITY GUIDE

MIDDLE AND HIGH SCHOOL LEVELS

Human Kinetics Accompanying CD-ROM contains 127 reproducibles.

RESTORING TRUST IN SPORT

CORRUPTION CASES AND SOLUTIONS

Routledge In this solutions-focused collection of sport corruption case studies, leading researchers consider how to re-establish trust both within sports organisations and in the wider sporting public. Inspired by the idea of 'moral repair', the book examines significant corruption cases and the measures taken to reduce further harm or risk of recurrence. The book has an international scope, including case study material from Europe, Asia, Africa, Australia and New Zealand, and covers important contemporary issues including whistleblowing, bribery, match-fixing, gambling, bidding for major events, and good governance. It examines the loss of trust at both national and international levels. Drawing on cutting-edge research, the book includes both on-field and off-field examples, from Olympic, non-Olympic, professional and amateur sports, as well as diverse academic and practitioner perspectives. Offering an important contribution to current debates and a source of reflection on best professional practice, Restoring Trust in Sport helps us to better understand why corruption happens in sport and how it can and should be addressed. This is invaluable reading for all advanced students, researchers, managers and policy makers with an interest in integrity in sport, sport ethics, sport management, sport governance, sports law, and a useful reference for anybody working in criminology, business and management, law, sociology or political science.

SUN TRACKER, AUTOMATIC SOLAR- TRACKING, SUN- TRACKING SYSTEMS, SOLAR TRACKERS AND AUTOMATIC SUN TRACKER SYSTEMS СОЛНЕЧНАЯ СЛЕЖЕНИЯ

HIGH PRECISION SOLAR POSITION ALGORITHMS, PROGRAMS, SOFTWARE AND SOURCE-CODE FOR COMPUTING THE SOLAR VECTOR, SOLAR COORDINATES & SUN ANGLES IN MICROPROCESSOR, PLC, ARDUINO, PIC AND PC-BASED SUN TRACKING DEVICES OR DYNAMIC SUN FOLLOWING HARDWARE

Gerro Prinsloo This book details Solar-Tracking, Automatic Sun-Tracking-Systems and Solar-Trackers. Book and literature review is ideal for sun and moon tracking in solar applications for sun-rich countries such as the USA, Spain, Portugal, Mediterranean, Italy, Greece, Mexico, Portugal, China, India, Brazil, Chili, Argentina, South America, UAE, Saudi Arabia, Middle East, Iran, Iraq, etc. A solar tracker is a device that orients a payload toward the sun. Like a satellite tracker or moon tracker, it tracks the celestial object in the sky on its orbital path of apparent movement. A programmable computer based solar tracking device includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conic, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun's daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout the day. Using solar equations in an electronic circuit for solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies,

scholars, students and Hobbyist's looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking systems. This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller. By directing the solar collector directly into the sun, a solar harvesting means or device can harness sunlight or thermal heat. This is achieved with the help of sun angle formulas, solar angle formulas or solar tracking procedures for the calculation of sun's position in the sky. Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky. In using the longitude, latitude GPS coordinates of the solar tracker location, these sun tracking software tools supports precision solar tracking by determining the solar altitude-azimuth coordinates for the sun trajectory in altitude-azimuth tracking at the tracker location, using certain sun angle formulas in sun vector calculations. Instead of follow the sun software, a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically. Such optical feedback devices are often used in solar panel tracking systems and dish tracking systems. Dynamic sun tracing is also used in solar surveying, DNI analyser and sun surveying systems that build solar infographics maps with solar radiance, irradiance and DNI models for GIS (geographical information system). In this way geospatial methods on solar/environment interaction makes use use of geospatial technologies (GIS, Remote Sensing, and Cartography).Climatic data and weather station or weather center data, as well as queries from sky servers and solar resource database systems (i.e. on DB2, Sybase, Oracle, SQL, MySQL) may also be associated with solar GIS maps. In such solar resource modelling systems, a pyranometer or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular geographical location. Sunlight analysis is important in flash photography where photographic lighting are important for photographers. GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis, solar flux calculations, optical modelling or to perform weather modelling. Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity. The purpose of this booklet is to assist developers to track and trace suitable source-code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes (Pebble). Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro-controllers, Programmable Logic Controllers PLC, programmable gate arrays, Arduino processor or PIC processor. PC based solar tracking is also high in demand using C++, Visual Basic VB, as well as MS Windows, Linux and Apple Mac based operating systems for sun path tables on Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator, sun position calculator or solar angle calculator. As said, such software code calculate the solar azimuth angle, solar altitude angle, solar elevation angle or the solar Zenith angle (Zenith solar angle is simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices. Most of these smartphone solar mobile apps show the sun path and sun-angles for any location and date over a 24 hour period. Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone's specific GPS location. In the computer programming and digital signal processing (DSP) environment, (free/open source) program code are available for VB, .Net, Delphi, Python, C, C+, C++, Swift, ADM, F, Flash, Basic, QBasic, GBasic, KBasic, SIMPL language, Squirrel, Solaris, Assembly language on operating systems such as MS Windows, Apple Mac, DOS or Linux OS. Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab (Mathworks), Simulink models, Java applets, TRNSYS simulations, Scada system apps, Labview module, Beckhoff TwinCAT (Visual Studio), Siemens SPA, mobile and iphone apps, Android or iOS tablet apps, and so forth. At the same time, PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens, HP, Panasonic, ABB, Allan Bradley, OMRON, SEW, Festo, Beckhoff, Rockwell, Schneider, Endress Hauser, Fudji electric, Honeywell, Fuchs, Yokonawa, or Muthibishi platforms. Sun path projection software are also available for a range of modular IPC embedded PC motherboards, Industrial PC, PLC (Programmable Logic Controller) and PAC (Programmable Automation Controller) such as the Siemens S7-1200 or Siemens Logo, Beckhoff IPC or CX series, OMRON PLC, Ercam PLC, AC500plc ABB, National Instruments NI PXI or NI cRIO, PIC processor, Intel 8051/8085, IBM (Cell, Power, Brain or Truenorth series), FPGA (Xilinx Altera Nios), Xeon, Atmel megaAVR, or Arduino ATmega microcontroller, with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle be measured with a azimuth angle-, horizontal angle-, or roll angle- sensor. Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web-based feedback in terms of CO2 and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar energy and concentrated solar devices, including solar power generation, solar desalination, solar water purification, solar steam generation, solar electricity generation, solar industrial process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinators, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar dyeing means. Your project may be the next breakthrough or patent, but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels, hobby robot, or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam, liquid/gaseous fuel, or capture food-grade CO₂) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit-form and operate on a plug-and play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrd and distributed power renewable energy systems. Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab and Simulink platform as well as in automation and control of renewable energy systems through intelligent parsing, multi-objective, adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS). Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic of CSP systems on simulation and synthesis platforms such as Matlab and Simulink or in linear or multi-objective optimization algorithm platforms such as COMPOSE, EnergyPLAN or DER-CAM. A dual-axis solar tracker and single-axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar nantenna. A self-tracking solar concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependant-resistors (LDR) or photoresistors are used as optical accuracy feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position. In a solar mems sun-sensor device, incident sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-axis sun solar tracking. It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output, even in a single axis solar tracking configuration. Other applications such as robotic solar tracker or robotic solar tracking system uses robotica with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system. Automatic positioning systems in solar tracking designs are also used in other free energy generators, such as concentrated solar thermal power CSP and dish Stirling systems. The sun tracking device in a solar collector in a solar concentrator or solar collector Such a performs on-axis solar tracking, a dual axis solar tracker assists to harness energy from the sun through an optical solar collector, which can be a parabolic mirror, parabolic reflector, Fresnel lens or mirror array/matrix. A parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean. In steering the dish to face the sun, the power dish actuator and actuation means in a parabolic dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar heat pipe, thermosyphin, solar phase change material PCM receiver, or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator. The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power generation system. Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power sources to harness and store solar energy in a storage medium. Any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries, phase change material, thermal heat storage, and in cogeneration form converted to the required power using thermodynamic cycles (organic Rankin, Brayton cycle, micro turbine, Stirling) with an inverter and charge controller.

В этой книге подробно Автоматическая Solar-Tracking, BC-Tracking-Systems, Solar-трекеры и BC Tracker Systems. Интеллектуальный автоматический солнечной слежения является устройством, которое ориентирует полезную нагрузку к солнцу. Такое программируемый компьютер на основе солнечной устройство слежения включает принципы солнечной слежения, солнечных систем слежения, а также микроконтроллер, микропроцессор и / или ПК на базе управления солнечной отслеживания ориентироваться солнечных отражателей, солнечные линзы, фотоэлектрические панели или другие оптические конфигурации к BC Моторизованные космические кадры и кинематические системы обеспечения динамики движения и использовать приводной техники и готовится принципы, чтобы направить оптические конфигурации, такие как Манжен, параболических, конических или Кассегрена солнечных коллекторов энергии, чтобы лицом к солнцу и следовать за солнцем контур движения непрерывно. В обуздывать силу от солнца через солнечный трекер или практической солнечной системы слежения, системы возобновляемых контроля энергии автоматизации требуют автоматического солнечной отслеживания программного обеспечения и алгоритмов солнечные позиции для достижения динамического контроля движения с архитектуры автоматизации управления, печатных плат и аппаратных средств. На оси системы слежения BC, таких как высота-азимут двойной оси или многоосевые солнечные системы трекер использовать алгоритм отслеживания солнце или трассировки лучей датчиков или программное обеспечение, чтобы обеспечить прохождение солнца по небу прослеживается с высокой точностью в автоматизированных приложений Солнечная Tracker, прямо через летнего солнцестояния, солнечного равноденствия и зимнего солнцестояния. Высокая точность позиции BC калькулятор или положение солнца алгоритм это важный шаг в проектировании и строительстве автоматической системой солнечной слежения.

ROUTLEDGE HANDBOOK OF YOUTH SPORT

Routledge The Routledge Handbook of Youth Sport is a comprehensive survey of the latest research into young people's involvement in sport. Drawing on a wide diversity of disciplines, including sociology, psychology, policy studies, coaching, physical education and physiology, the book examines the importance of sport during a key transitional period of our lives, from the later teenage years into the early twenties, and therefore helps us develop a better understanding of the social construction of young people's lives. The book covers youth sport in all its forms, from competitive game-contests and conventional sport to recreational activities, exercise and lifestyle sport, and at all levels, from elite competition to leisure time activities and school physical education. It explores youth sport across the world, in developing and developed countries, and touches on some of the most significant themes and issues in contemporary sport studies, including physical activity and health, lifelong participation, talent identification and development, and safeguarding and abuse. No other book brings together in one place such a breadth and depth of material on youth sport or the engagement of young people in physical activity. The Routledge Handbook of Youth Sport is therefore important reading for all advanced students, researchers, practitioners and policy-makers with an interest in youth sport, youth culture, sport studies or physical education.

CREATIVE ARTS MARKETING

Routledge Creative Arts Marketing third edition is a long-awaited update of a classic and influential text. A ground-breaking book when first published, it covers the core concepts of marketing and management as they apply to the arts and heritage industries with a depth that is still unrivalled. With an emphasis on global case studies, practical examples and discussion questions and an author team that draws from rich and varied experiences in the arts management sector, the book serves as a text for students as much as it is a practitioner's guide to industry best practice. Extensively revised to reflect the dramatic changes to this industry, this edition integrates organizational and management subject matter, reflecting the marketing function's deeper involvement in broad organizational issues. This fully updated and revised third edition features: Audience diversity and audience development The impact of digital technologies on the industry An exploration of the increasingly complex relationship between public and private funding for the arts Ethics and sustainability issues for arts marketers Cultural policy changes in the industry Including a brand new companion website, complete with materials for tutors and students for the first time, the return of this important text will be welcomed by students, tutors and professionals in the arts.

INJURY IN PEDIATRIC AND ADOLESCENT SPORTS

EPIDEMIOLOGY, TREATMENT AND PREVENTION

Springer Providing a state-of-the-art account of the nature, distribution and determinants of sports injury in children and adolescents, this unique volume uses the public health model to describe the scope of the injury problem and the associated risk factors and evaluate the current research on injury prevention strategies as described in the literature. Thoughtfully divided in six sections, the nature of the young athlete and epidemiology of pediatric and adolescent sports injury are described first. Then an overview of the most common types of youth sports injuries as well as more serious injuries (e.g., concussions) and outcomes is presented, followed by a discussion of injury causation and prevention. Suggestions for future research rounds out the presentation. Each chapter is illustrated with tables which make it easy to examine injury factors between studies. Throughout, the editors and contributors have taken an evidence-based approach and adopted a uniform methodology to assess the data available. Ideal for physicians, physical therapists, athletic trainers and sports scientists alike, Injury in Pediatric and Adolescent Sports concisely and accurately presents the situation faced by clinicians treating young athletes and the challenges they face in keeping up with this growing and active population. Furthermore, the information in this book will be useful to allied health researchers and sport governing bodies as an informed basis for continued epidemiological study and implementation of injury prevention initiatives designed to reduce the incidence and severity of injuries encountered by young athletes.

INFORMATION AND SOFTWARE TECHNOLOGIES

23RD INTERNATIONAL CONFERENCE, ICIST 2017, DRUSKININKAI, LITHUANIA, OCTOBER 12-14, 2017, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 23rd International Conference on Information and Software Technologies, ICIST 2017, held in Druskininkai, Lithuania, in October 2017. The 51 papers presented were carefully reviewed and selected from 135 submissions. The papers are organized in topical sections on information systems; business intelligence for information and software systems; software engineering; information technology applications.

LONG-TERM ATHLETE DEVELOPMENT

Human Kinetics Long-Term Athlete Development describes how to systematically develop sporting excellence and increase active participation in local, regional, and national sport organizations. This resource describes the long-term athlete development (LTAD) model, an approach to athlete-centered sport that combines skill instruction with long-term planning and an understanding of human development. By learning about LTAD, sport administrators and coaches will gain the knowledge and tools to enhance participation and improve performance and growth of athletes. This text offers the first in-depth and practical explanation of the LTAD model. Long-Term Athlete Development integrates current research on talent development and assessment into practice to help sport leaders plan athletic development across the life span or design detailed programs for a particular group, including those with physical and cognitive disabilities. Authors Balyi, Way, and Higgs—pioneers and veteran LTAD facilitators—critique current talent development models, discuss the limitations of the LTAD model, and demonstrate the benefits of LTAD as a new approach. By integrating knowledge of these models, readers are able to analyze their own programs and take steps to improve sport and coaching philosophies and reach adherence and performance goals. Explanations and visuals of concepts help readers understand the state of knowledge in talent identification and long-term athlete development. Chapter-opening vignettes offer examples of how the LTAD model can be used to alleviate common issues. Listings at the end of each chapter offer sources for further study, and reflection questions guide readers in applying the content. The text offers a logical presentation of current research: • Key factors that guide and shape the LTAD model, such as physical literacy, the differences between early- and late-specialization sports, and variations in trainability across the life span • Information on the time needed to develop excellence in sport and how periodization of training is related to the developmental stage of the athlete • The seven stages of LTAD, from development of fundamental movement skills to training for elite competition and the transition to lifelong physical activity • Considerations in the development of optimal programs for participants passing through each of the seven stages Long-Term Athlete Development is an essential guide to improving the quality of sport, developing high-performance athletes, and creating healthy, active citizens. It offers parents, coaches, and sport administrators a deeper understanding of the LTAD model, helping them create an enjoyable, developmentally appropriate environment for both competitive athletes and enthusiastic participants.

STRATEGIC SPORT COMMUNICATION

Human Kinetics This is an introduction to the wide-ranging world of sport communication, integral to the successful management, marketing, and operation of sport organisations at all levels. The text outlines the full breadth of the communication industry, including the many professional careers available to students and practitioners.

RESEARCH METHODS IN SPORT STUDIES AND SPORT MANAGEMENT

A PRACTICAL GUIDE

Routledge Research can be a challenging but rewarding activity. All degree-level students studying sport, and all effective professionals working in the sport sector need to have a sound understanding of research methods and how to critically interpret research findings. This broad-ranging, in-depth and practical textbook introduces research methods for students on sport-related degree courses, outlining the knowledge and practical skills needed to undertake meaningful research and to become a knowledgeable consumer of the research of others. The book explores every element of the research process, from the fundamental 'what, why and who?' questions, through research plans, literature review, qualitative and quantitative methods of data collection and data analysis, to the communication of research results. It offers a critical appraisal of alternative methods, including mixed methods, as well as clear guidance on how to use each particular method. Every chapter contains test questions and practical exercises, detailed case studies, a clear chapter summary and extensive guides to further sport-related study resources, to enable students to check their understanding and develop, extend and apply their practical skills. Step-by-step introductions to the use of the key statistical packages Excel, SPSS and NVivo in sport research are included. On-line support materials include some 400 PowerPoint slides and copies of data-sets used in the book. With deeper and broader coverage than any other sport-related research methods textbook, and a clear focus on 'how to do it', Research Methods for Sport Studies and Sport Management is an essential companion for any sport-related degree course.

THE ETHICS OF SPORT

ESSENTIAL READINGS

Oxford University Press Sports are more than just "games". They can unite countries, start wars, and revolutionize views on race, class, and gender. Through works from philosophy, sociology, medicine, and law, this collection explores intersections of sports and ethics, and identifies the immense role of sports in shaping and reflecting social values

THE GREEN BOOK

APPRAISAL AND EVALUATION IN CENTRAL GOVERNMENT : TREASURY GUIDANCE

Stationery Office This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

PERFORMANCE ANALYSIS IN SPORT

Frontiers Media SA

GLOBAL ACTION PLAN ON PHYSICAL ACTIVITY 2018-2030

MORE ACTIVE PEOPLE FOR A HEALTHIER WORLD

World Health Organization Regular physical activity is proven to help prevent and treat noncommunicable diseases (NCDs) such as heart disease, stroke, diabetes and breast and colon cancer. It also helps to prevent hypertension, overweight and obesity and can improve mental health, quality of life and well-being. In addition to the multiple health benefits of physical activity, societies that are more active can generate additional returns on investment including a reduced use of fossil fuels, cleaner air and less congested, safer roads. These outcomes are interconnected with achieving the shared goals, political priorities and ambition of the Sustainable Development Agenda 2030. The new WHO global action plan to promote physical activity responds to the requests by countries for updated guidance, and a framework of effective and feasible policy actions to increase physical activity at all levels. It also responds to requests for global leadership and stronger regional and national coordination, and the need for a whole-of-society response to achieve a paradigm shift in both supporting and valuing all people being regularly active, according to ability and across the life course. The action plan was developed through a worldwide consultation process involving governments and key stakeholders across multiple sectors including health, sports, transport, urban design, civil society, academia and the private sector.

THE SAGES MANUAL OF QUALITY, OUTCOMES AND PATIENT SAFETY

Springer Nature

ADAPTED PHYSICAL EDUCATION AND SPORT

Human Kinetics The field of adapted physical education and sport has undergone numerous changes in recent years. This new edition of Adapted Physical Education and Sport will help you stay on top of those changes and, in doing so, provide the highest-quality physical education and sport opportunities for students with disabilities. **NEW MATERIAL** The sixth edition of this well-loved text builds on its successful previous editions and is replete with changes that are current with today's trends and practices in the field: • As the inclusion movement continues to expand, the authors have revised several chapters to detail relevant inclusion practices and applications in both physical education and sport, helping to integrate students with disabilities into regular class and sport settings with guidelines for modifying activities. • The chapter on adapted sport is further developed to communicate and reflect on progress in the field and includes a Sport Framework for Individuals with Disabilities model to help develop and implement sport programs. • The book gives attention to the revised Brockport Physical Fitness Test, and the accompanying web resource offers video clips that explain and demonstrate the criterion-referenced health-related tests that are applicable to many students with disabilities. • Advances and applications pertaining to behavior management and wheelchair sport performance are covered in various chapters. • The authors address the use of new technology as it relates to teaching and administration for adapted physical education and explore stand-alone apps that can be used in conjunction with the book that are useful in behavior management, fitness development, communication, social interaction, and physical education activities. • The authors give increased attention to the problem of obesity, particularly relevant to students with disabilities. • Many new authors and a coeditor have been brought on board, bringing fresh perspectives to the book and adding to the depth of experience provided by the returning authors and editor. These additions help Adapted Physical Education and Sport maintain its reputation as a comprehensive, user-friendly text that helps teachers provide top-quality services to people with unique physical education needs. Greatly influenced by the Individuals with Disabilities Education Act, this book helps in identifying the unique needs of students and developing physical education programs, including individualized education programs (IEPs) for students with disabilities, that are consistent with current federal legislation. **STRONG ANCILLARIES** The text is augmented by its ancillaries, which include an instructor guide, test package, presentation package, and web resource with video. The instructor guide offers chapter objectives, additional resources, and learning and enrichment activities that will help students master the content and extend their knowledge. The test package helps in building custom tests using hundreds of test questions and answers. You will find hundreds of PowerPoint slides that reinforce the text's key points in the presentation package, and the web resource includes 26 videos of the new Brockport Physical Fitness Test in action as well as several reproducibles from the book. **DEEPENED UNDERSTANDING** The authors, renowned authorities in their fields, use real-life scenarios to introduce chapter concepts and then show how to apply the concepts in solving issues. The text will help deepen understanding of the implications of disabilities for people through age 21 (though much of the book is relevant in the entire life span). It grounds readers in the foundational topics for adapted physical education and sport, explores the developmental considerations involved, and outlines activities for developing programs for people with unique physical education needs. The book offers a four-color design to draw attention to important elements and provides separate author and subject indexes as well as resources with each chapter and on the web resource for further exploration. Adapted Physical Education and Sport supplies all that is needed for enriching the lives of students with disabilities by providing them with the high-quality programs they deserve.

INTRODUCTION TO SPORTS BIOMECHANICS

ANALYSING HUMAN MOVEMENT PATTERNS

Routledge First published in 1996. Routledge is an imprint of Taylor & Francis, an informa company.

RHEUMATOLOGY E-BOOK

Elsevier Health Sciences Covering both the scientific basis of rheumatology and practical, clinical information for rheumatologists and trainees, *Rheumatology, 8th Edition*, remains a leading text in this fast-changing field. Dr. Marc Hochberg and his team of worldwide editors and authors keep you abreast of recent advances in the field— all in a user-friendly, accessible manner. Fully updated from cover to cover, this two-volume text is designed to meet the needs of all practicing and academic rheumatologists as well as arthritis-related health care professionals and scientists interested in rheumatic and musculoskeletal diseases. Covers the epidemiology, pathogenesis, clinical manifestations, therapeutic approach, and management of all major as well as rarely encountered rheumatic and musculoskeletal diseases. Discusses clinical examination, imaging principles, differential diagnosis, established and novel therapies, perioperative evaluation, pain management, basic science, and genetics of rheumatic and musculoskeletal diseases. Uses a consistent, logical, reader-friendly format with templated chapters, concise text, and large-scale, state-of-the-art illustrations for efficient visual reference. Contains new chapters covering pre-clinical disease and how to address these patients, common comorbidities in rheumatoid arthritis; emerging therapies for systemic sclerosis; immune mediated complications of checkpoint inhibitors; the epidemiology of COVID-19 and rheumatic and musculoskeletal diseases, emerging treatments for osteoarthritis, and big data analytics. Provides updates to key topics such as systems biology and its impact on our understanding of the pathogenesis of rheumatic and musculoskeletal diseases, the microbiome in rheumatic musculoskeletal diseases, how to manage chronic pain in the patient with a rheumatic disease, drugs and reproductive health, and emerging therapies for patients with RA, SLE, spondyloarthritis, inflammatory muscle disease, and vasculitis. Shares the knowledge and expertise of numerous new contributing authors, as well as new co-editor Dr. Désirée van der Heijde, who is an expert in psoriatic arthritis, spondyloarthritis, imaging, and clinical epidemiology. Provides access to concise videos depicting the use of ultrasound for diagnosis and treatment.

GOVERNANCE IN SPORT

ANALYSIS AND APPLICATION

Human Kinetics Publishers *Governance in Sport: Analysis and Application With Web Resource* examines governance within sport organizations. Learn legal foundations and agency functions at multiple levels, and examine industry sectors, including sport wagering and esports. The web resource includes 12 in-depth, modern case studies.

FUELING YOUNG ATHLETES

Human Kinetics *Fueling Young Athletes* stresses the importance of balanced daily nutrition as part of an overall eating plan for health, growth, development, and sport performance and shows how to implement that plan.

ALPINE SKIING INJURIES

PREVENTION AND MANAGEMENT

Springer This book provides detailed information on the different forms of injury that are associated with training for and participation in Alpine skiing, covering risk factors and epidemiology, incidence, injury patterns, and, above all, preventive strategies and current management approaches. Conditions addressed in individual chapters include concussion, traumatic dislocations due to high-energy trauma or inappropriate movements, overuse injuries resulting from dry-land training or skiing on snow, the fractures typically associated with present-day Alpine skiing accidents, and musculoskeletal disorders. The importance of a sound understanding of biomechanics and physiological systems for the design of suitable training protocols and trauma prevention is clearly explained, and in-depth information and guidance are provided on training and testing for elite skiers and return to sporting activity following injury. Among the other topics addressed in individual chapters are the relationship of changes in skiing equipment over recent decades to particular types of injury and the potential consequences of exposure to hypobaric hypoxia and other stressors at high altitude. The book will be of great value to all medical professionals who work with or care for Alpine skiers, as well as for trainers and the skiers themselves.

SUBSTANCE USE DISORDERS, AN ISSUE OF MEDICAL CLINICS OF NORTH AMERICA, E-BOOK

Elsevier Health Sciences In this issue of *Medical Clinics*, guest editor Melissa B. Weimer brings her considerable expertise to the topic of Substance Use Disorders. Provides in-depth, clinical reviews on the latest updates in Substance Use Disorders, providing actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field; Authors synthesize and distill the latest research and practice guidelines to create these timely topic-based reviews.

STAT SHOT: A FAN'S GUIDE TO HOCKEY ANALYTICS

ECW Press With every passing season, statistical analysis is playing an ever-increasing role in how hockey is played and covered. Knowledge of the underlying numbers can help fans stretch their enjoyment of the game. Acting as an invaluable supplement to traditional analysis, *Stat Shot: A Fan's Guide to Hockey Analytics* can be used to test the validity of conventional wisdom and to gain insight into what teams are doing behind the scenes — or maybe what they should be doing! Inspired by Bill James's *Baseball Abstract*, Rob Vollman has written a timeless reference of the mainstream applications and limitations of hockey analytics. With over 300 pages of fresh analysis, it includes a guide to the basics, how to place stats into context, how to translate data from one league to another, the most comprehensive glossary of hockey statistics, and more. Whether *A Fan's Guide to Hockey Analytics* is used as a primer for today's new statistics, as a reference for leading edge research and hard-to-find statistical data, or read for its passionate and engaging storytelling, it belongs on every serious fan's bookshelf. *A Fan's Guide to Hockey Analytics* makes advanced stats simple, practical, and fun.

EYE TRACKING

A COMPREHENSIVE GUIDE TO METHODS AND MEASURES

OUP Oxford We make 3-5 eye movements per second, and these movements are crucial in helping us deal with the vast amounts of information we encounter in our everyday lives. In recent years, thanks to the development of eye tracking technology, there has been a growing interest in monitoring and measuring these movements, with a view to understanding how we attend to and process the visual information we encounter. Eye tracking as a research tool is now more accessible than ever, and is growing in popularity amongst researchers from a whole host of different disciplines. Usability analysts, sports scientists, cognitive psychologists, reading researchers, psycholinguists, neurophysiologists, electrical engineers, and others, all have a vested interest in eye tracking for different reasons. The ability to record eye-movements has helped advance our science and led to technological innovations. However, the growth of eye tracking in recent years has also presented a variety of challenges - in particular the issue of how to design an eye-tracking experiment, and how to analyse the data. This book is a much needed comprehensive handbook of eye tracking methodology. It describes how to evaluate and acquire an eye-tracker, how to plan and design an eye tracking study, and how to record and analyse eye-movement data. Besides technical details and theory, the heart of this book revolves around practicality - how raw data samples are converted into fixations and saccades using event detection algorithms, how the different representations of eye movement data are calculated using AOs, heat maps and scanpaths, and how all the measures of eye movements relate to these processes. Part I presents the technology and skills needed to perform high-quality research with eye-trackers. Part II covers the predominant methods applied to the data which eye-trackers record. These include the parsing of raw sample data into oculomotor events, and how to calculate other representations of eye movements such as heat maps and transition matrices. Part III gives a comprehensive outline of the measures which can be calculated using the events and representations described in Part II. This is a taxonomy of the measures available to eye-tracking researchers, sorted by type of movement of the eyes and type of analysis. For anyone in the sciences considering conducting research involving eye-tracking, this book will be an essential reference work.

THE ASMBS TEXTBOOK OF BARIATRIC SURGERY

VOLUME 2: INTEGRATED HEALTH

Springer Developed by the American Society for Metabolic and Bariatric Surgery (ASMBS), *The ASMBS Textbook of Bariatric Surgery* provides a comprehensive guide of information dealing with the ever evolving field of bariatric surgery. Volume II: *Integrated Health* is divided into 3 sections: bariatric

medicine, psychosocial and nutritional aspects of bariatric surgery. The first section deals with the psychosocial issues associated with morbid obesity. The second section deals with the role of bariatric physicians in preoperative and postoperative support of the bariatric patients. The nutritional section discusses the preoperative and postoperative nutritional support for the bariatric patient. The ASMBS Textbook of Bariatric Surgery will be of great value to surgeons, residents and fellows, bariatric physicians, psychologists, psychiatrists and integrated health members that manage the morbidly obese.

SAS TRACKING HANDBOOK

Skyhorse Tracking originated with man's need for food; he needed to understand what he was following and what the rewards would be if he was successful. Little has changed over time about the terms of tracking. We still track game for sport and food, but we have also found other uses for tracking. Border police patrol to stop illegal immigrants from entering their country; the military tracks down wanted terrorists or enemy forces. Tracking has become a military skill. In the SAS Tracking Handbook, former SAS soldier and British Empire Medal (BEM) award-winner Barry Davies teaches not only how to survive in the outdoors with the skills of tracking, but how to use these skills from a military standpoint. Included in this book are many helpful tips on topics including: The types of dogs used for tracking. Traps for catching wild animals. Modern military tracking. Using your surroundings to your advantage. And much more. The success or failure of the modern tracker is dependent on the personal skills of the individual tracker. Training is vital in learning tracking skills, and continuous exercise the best way to interpret signs. These skills are rarely found, but they remain hidden deep within all of us. So whether you're already a skilled tracker or a novice in the field, the SAS Tracking Handbook will be your guide to mastering this old and respected art.

BULLS MARKETS

CHICAGO'S BASKETBALL BUSINESS AND THE NEW INEQUALITY

University of Chicago Press An unvarnished look at the economic and political choices that reshaped contemporary Chicago—arguably for the worse. The 1990s were a glorious time for the Chicago Bulls, an age of historic championships and all-time basketball greats like Scottie Pippen and Michael Jordan. It seemed only fitting that city, county, and state officials would assist the team owners in constructing a sparkling new venue to house this incredible team that was identified worldwide with Chicago. That arena, the United Center, is the focus of Bulls Markets, an unvarnished look at the economic and political choices that forever reshaped one of America's largest cities—arguably for the worse. Sean Dinces shows how the construction of the United Center reveals the fundamental problems with neoliberal urban development. The pitch for building the arena was fueled by promises of private funding and equitable revitalization in a long-blighted neighborhood. However, the effort was funded in large part by municipal tax breaks that few ordinary Chicagoans knew about, and that wound up exacerbating the rising problems of gentrification and wealth stratification. In this portrait of the construction of the United Center and the urban life that developed around it, Dinces starkly depicts a pattern of inequity that has become emblematic of contemporary American cities: governments and sports franchises collude to provide amenities for the wealthy at the expense of poorer citizens, diminishing their experiences as fans and—far worse—creating an urban environment that is regulated and surveilled for the comfort and protection of that same moneyed elite.

MEASURING PRODUCTIVITY - OECD MANUAL MEASUREMENT OF AGGREGATE AND INDUSTRY-LEVEL PRODUCTIVITY GROWTH

MEASUREMENT OF AGGREGATE AND INDUSTRY-LEVEL PRODUCTIVITY GROWTH

OECD Publishing This manual presents the theoretical foundations to productivity measurement, and discusses implementation and measurement issues.