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KEY=APPLIED - DILLON STONE

ASBESTOS

THE ANALYSTS' GUIDE FOR SAMPLING, ANALYSIS AND CLEARANCE PROCEDURES

This book provides advice and guidance for analysts involved licensed abestos removal and the sampling of asbestos - containing materials. This publication consolidates and updates technical guidance from a number of HSE sources, including previously published guidance notes (EH10, MDHS39, MDHS77).

NONPARAMETRIC STATISTICS FOR THE BEHAVIORAL SCIENCES

INTRODUCTION TO STATISTICAL TIME SERIES

John Wiley & Sons The subject of time series is of considerable interest, especially among researchers in econometrics, engineering, and the natural sciences. As part of the prestigious Wiley Series in Probability and Statistics, this book provides a lucid introduction to the field and, in this new Second Edition, covers the important advances of recent years, including nonstationary models, nonlinear estimation, multivariate models, state space representations, and empirical model identification. New sections have also been added on the Wold decomposition, partial autocorrelation, long memory processes, and the Kalman filter. Major topics include: * Moving average and autoregressive processes * Introduction to Fourier analysis * Spectral theory and filtering * Large sample theory * Estimation of the mean and autocorrelations * Estimation of the spectrum * Parameter estimation * Regression, trend, and seasonality * Unit root and explosive time series To accommodate a wide variety of readers, review material, especially on elementary results in Fourier analysis, large sample statistics, and difference equations, has been included.

FOUNDATIONS OF STATISTICAL NATURAL LANGUAGE PROCESSING

MIT Press Statistical approaches to processing natural language text have become dominant in recent years. This foundational text is the first comprehensive introduction to statistical natural language processing (NLP) to appear. The book contains all the theory and algorithms needed for building NLP tools. It provides broad but rigorous coverage of mathematical and linguistic foundations, as well as detailed discussion of statistical methods, allowing students and researchers to construct their own implementations. The book covers collocation finding, word sense disambiguation, probabilistic parsing, information retrieval, and other applications.

HANDBOOK ON MEASUREMENT, ASSESSMENT, AND EVALUATION IN HIGHER EDUCATION

Routledge In this valuable resource, well-known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement, assessment, and evaluation, with guidance on how to apply these ideas for the benefit of students and institutions. Bringing together terminology, analytical perspectives, and methodological advances, this second edition facilitates informed decision-making while connecting the latest thinking in these methodological areas with actual practice in higher education. This research handbook provides higher education administrators, student affairs personnel, institutional researchers, and faculty with an integrated volume of theory, method, and application.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON PARADIGMS OF COMPUTING, COMMUNICATION AND DATA SCIENCES

PCCDS 2020

Springer Nature This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwined with each other for efficiency.

HIGHER EDUCATION IN THE GERMAN DEMOCRATIC REPUBLIC

The system of higher education of the German Democratic Republic is described. Information on the different kinds of colleges--universities, university colleges, and engineering and technical colleges--is provided, including admission procedures, course objectives, course content and structure, further education, paths leading to the award of higher academic degrees, types of academic degrees awarded, training of foreign students, research at higher education institutions, the role of the library in the tertiary education system, senior academic staff, junior members of academic staffs at universities and university colleges, and college lecturers. Additional topics include: the integrated system of state administration, the administration of universities and university colleges, the administration of engineering and technical colleges, and international cooperation by universities, university colleges, and technical colleges. Appendices include diagrams of: the Integrated Socialist Education System, the routes to technical education, and the administrative structure at a university. Also appended are timetables for the curricula of livestock farming and technology of metal processing, and a list of higher education institutions. (SW)

SOCIAL THEORY AND SOCIAL STRUCTURE

Simon and Schuster Examines the interactions between sociological theory and research in various approaches to the study of social structure, evaluating the limitations and functions of each

PROSTITUTION, SEXUALITY, AND THE LAW IN ANCIENT ROME

Oxford University Press This is a study of the legal rules affecting the practice of female prostitution at Rome approximately from 200 B.C. to A.D. 250. It examines the formation and precise content of the legal norms developed for prostitution and those engaged in this profession, with close attention to their social context. McGinn's unique study explores the "fit" between the law-system and the socio-economic reality while shedding light on important questions concerning marginal groups, marriage, sexual behavior, the family, slavery, and citizen status, particularly that of women.

18TH INTERNATIONAL PROBABILISTIC WORKSHOP

IPW 2020

Springer Nature This volume presents the proceedings of the 18th International Probabilistic Workshop (IPW), which was held in Guimarães, Portugal in May 2021. Probabilistic methods are currently of crucial importance for research and developments in the field of engineering, which face challenges presented by new materials and technologies and rapidly changing societal needs and values. Contemporary needs related to, for example, performance-based design, service-life design, life-cycle analysis, product optimization, assessment of existing structures and structural robustness give rise to new developments as well as accurate and practically applicable probabilistic and statistical engineering methods to support these developments. These proceedings are a valuable resource for anyone interested in contemporary developments in the field of probabilistic engineering applications.

ADVANCED SMART GRID FUNCTIONALITIES BASED ON POWERFACTORY

Springer This book consolidates some of the most promising advanced smart grid functionalities and provides a comprehensive set of guidelines for their implementation/evaluation using DIgSILENT Power Factory. It includes specific aspects of modeling, simulation and analysis, for example wide-area monitoring, visualization and control, dynamic capability rating, real-time load measurement and management, interfaces and co-simulation for modeling and simulation of hybrid systems. It also presents key advanced features of modeling and automation of calculations using PowerFactory, such as the use of domain-specific (DSL) and DIgSILENT Programming (DPL) languages, and utilizes a variety of methodologies including theoretical explanations, practical examples and guidelines. Providing a concise compilation of significant outcomes by experienced users and developers of this program, it is a valuable resource for postgraduate students and engineers working in power-system operation and planning.

THE SCIENTIST AND ENGINEER'S GUIDE TO DIGITAL SIGNAL PROCESSING

TANKS IN THE GREAT WAR, 1914-1918

Alpha Edition This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. We have represented this book in the same form as it was first published. Hence any marks seen are left intentionally to preserve its true nature.

TOWARD A BETTER FUTURE

EDUCATION AND TRAINING FOR ECONOMIC DEVELOPMENT IN SINGAPORE SINCE 1965

World Bank Publications 'Toward a Better Future' provides a comprehensive analysis of education development in Singapore since 1965, giving particular attention to the strategic management that has enabled Singapore to transform its education and training system from one similar to that of many Sub-Saharan African countries four decades ago into one of the world's best-performing systems. It is one of a pair of concurrently-published books presenting materials originally developed for a 2006 study tour to Singapore and Vietnam for senior education officials from Cameroon, Ethiopia, Ghana, Lesotho, Madagascar, and Mozambique. The second book, 'An African Exploration of the East Asian Education Experience', presents five country studies, as well as regional, comparative analyses highlighting insights gained during the study tour and putting them in the context of Sub-Saharan Africa. Together, the two books aim to foster knowledge exchange between Sub-Saharan African and East Asian countries on good practices in the design and implementation of education policies and programs. By facilitating the cross-country fertilization of ideas between two regions with relatively limited contact in the past, these books fi ll a clear gap in the current literature on development practice in education.

MULTILINGUAL NATURAL LANGUAGE PROCESSING APPLICATIONS

FROM THEORY TO PRACTICE

IBM Press Multilingual Natural Language Processing Applications is the first comprehensive single-source guide to building robust and accurate multilingual NLP systems. Edited by two leading experts, it integrates cutting-edge advances with practical solutions drawn from extensive field experience. Part I introduces the core concepts and theoretical foundations of modern multilingual natural language processing, presenting today's best practices for understanding word and document structure, analyzing syntax, modeling language, recognizing entailment, and detecting redundancy. Part II thoroughly addresses the practical considerations associated with building real-world applications, including information extraction, machine translation, information retrieval/search, summarization, question answering, distillation, processing pipelines, and more. This book contains important new contributions from leading researchers at IBM, Google, Microsoft, Thomson Reuters, BBN, CMU, University of Edinburgh, University of Washington, University of North Texas, and others. Coverage includes Core NLP problems, and today's best algorithms for attacking them Processing the diverse morphologies present in the world's languages Uncovering syntactical structure, parsing semantics, using semantic role labeling, and scoring grammaticality Recognizing inferences, subjectivity, and opinion polarity Managing key algorithmic and design tradeoffs in real-world applications Extracting information via mention detection, coreference resolution, and events Building large-scale systems for machine translation, information retrieval, and summarization Answering complex questions through distillation and other advanced techniques Creating dialog systems that leverage advances in speech recognition, synthesis, and dialog management Constructing common infrastructure for multiple multilingual text processing applications This book will be invaluable for all engineers, software developers, researchers, and graduate students who want to process large quantities of text in multiple languages, in any environment: government, corporate, or academic.

UK DEFENCE STATISTICS 2004

The Stationery Office This annual statistical compendium from the Ministry of Defence contains a wide range of data relating to the armed forces, defence expenditure, service and civilian personnel and defence activities. Findings for the period 2003-04 include: i) defence spending was the Government's fourth highest expenditure, with a provisional outturn against the Departmental Expenditure Limits of £37.2 billion, and a total value of MoD fixed assets of £86.3 billion as of March 2003; ii) the total number of MoD personnel fell by 34 per cent between 1990 to 2004, with service personnel down by 32 per cent; iii) the proportion of serving personnel from the ethnic minorities stood at 4.9 per cent at April 2004, compared with 4.3 per cent the previous year; iv) in 2002-03, MoD net expenditure on R&D activity totalled £2.7 billion; and v) the MoD spent around £1.7 billion on conflict prevention activities worldwide during the year 2003-04.

STATISTICAL LEARNING AND DATA SCIENCE

CRC Press Data analysis is changing fast. Driven by a vast range of application domains and affordable tools, machine learning has become mainstream. Unsupervised data analysis, including cluster analysis, factor analysis, and low dimensionality mapping methods continually being updated, have reached new heights of achievement in the incredibly rich data wor

HEALTH IN ALL POLICIES

PROSPECTS AND POTENTIALS

This volume, published in the context of the Finnish Presidency of the European Union (EU), aims to highlight how and why the health dimension can and should be taken into account across all government sectors. Particular emphasis is placed on the unique mandate and obligation of the EU to protect health in all its policies. The topic is explored from the perspectives of available methods and different levels of policy-making, and examples are included from specific policy areas and health issues.

INNOVATION LAB EXCELLENCE

DIGITAL TRANSFORMATION FROM WITHIN

This book goes behind the scenes of working innovation labs to distill a rigorous set of best practices. Apply these to unleash the innovation that will give your enterprise a digital competitive advantage.

DESIGN REQUIREMENTS ENGINEERING: A TEN-YEAR PERSPECTIVE

DESIGN REQUIREMENTS WORKSHOP, CLEVELAND, OH, USA, JUNE 3-6, 2007, REVISED AND INVITED PAPERS

Springer Science & Business Media Since its inception in 1968, software engineering has undergone numerous changes. In the early years, software development was organized using the waterfall model, where the focus of requirements engineering was on a frozen requirements document, which formed the basis of the subsequent design and implementation process. Since then, a lot has changed: software has to be developed faster, in larger and distributed teams, for pervasive as well as large-scale applications, with more flexibility, and with ongoing maintenance and quick release cycles. What do these ongoing developments and changes imply for the future of requirements engineering and software design? Now is the time to rethink the role of requirements and design for software intensive systems in transportation, life sciences, banking, e-government and other areas. Past assumptions need to be questioned, research and education need to be rethought. This book is based on the Design Requirements Workshop, held June 3-6, 2007, in Cleveland, OH, USA, where leading researchers met to assess the current state of affairs and define new directions. The papers included were carefully reviewed and selected to give an overview of the current state of the art as well as an outlook on probable future challenges and priorities. After a general introduction to the workshop and the related NSF-funded project, the contributions are organized in topical sections on fundamental concepts of design; evolution and the fluidity of design; quality and value-based requirements; requirements intertwining; and adapting requirements practices in different domains.

HANDBOOK OF SURVEY RESEARCH

Academic Press Handbook of Survey Research provides an introduction to the theory and practice of sample survey research. It addresses both the student who desires to master these topics and the practicing survey researcher who needs a source that codifies, rationalizes, and presents existing theory and practice. The handbook can be organized into three major parts. Part 1 sets forth the basic theoretical issues involved in sampling, measurement, and management of survey organizations. Part 2 deals mainly with ""hands-on,"" how-to-do-it issues: how to draw theoretically acceptable samples, how to write questionnaires, how to combine responses into appropriate scales and indices, how to avoid response effects and measurement errors, how actually to go about gathering survey data, how to avoid missing data (and what to do when you cannot), and other topics of a similar nature. Part 3 considers the analysis of survey data, with separate chapters for each of the three major multivariate analysis modes and one chapter on the uses of surveys in monitoring overtime trends. This handbook will be valuable both to advanced students and to practicing survey researchers seeking a detailed guide to the major issues in the design and analysis of sample surveys and to current state of the art practices in sample surveys.

FIGHTING THE PEOPLE'S WAR

THE BRITISH AND COMMONWEALTH ARMIES AND THE SECOND WORLD WAR

Cambridge University Press Jonathan Fennell captures for the first time the true wartime experience of the ordinary soldiers from across the empire who made up the British and Commonwealth armies. He analyses why the great battles were won and lost and how the men that fought went on to change the world.

METHODS IN GUT MICROBIAL ECOLOGY FOR RUMINANTS

Springer Science & Business Media Asaresultofvarioushumanactivities,suchasincreaseinhumanpopulation,decrease in arable land due to soil degradation, urbanization, industrialization and associated increase in the demand for livestock products, dramatic changes are occurring in the global ruminant livestock sector. These changes includeshift inthesize of regional livestock populations and in the types of management and feeding systems under which ruminant livestock are held, and increased demand of a wider range of quality attributes from animal agriculture, not just the products themselves but also the methods used in their production. The livestock sector will need to respond to newchallengesofincreasinglivestockproductivitywhileprotectingenvironmentand human health and conservingbiodiversity and natural resources. The micro-organisms in the digestive tracts of ruminant livestock have a profound in?uence on the conversion offeedinto end products, which can impact on the- imal and theenvironment. As the livestock sector grows particularly in developing countries, there will be an increasing need to understand these processes for b- ter management and use ofbothfeed and other natural resources that underpinthe development of sustainable feeding systems.

HAWKE'S SPECIAL FORCES SURVIVAL HANDBOOK

THE PORTABLE GUIDE TO GETTING OUT ALIVE

Running Press Adult Provides the most practical and accessible survival skills and information necessary to survive the worst circumstances and make it out alive.

THE ESSENTIAL HILLWALKER'S GUIDE

Frances Lincoln Throrough but compact guide for walkers and climbers, written by a team of expert authors, sets out all the skills and knowledge you need for safe walking in the hills or mountain regions.

PHEROMONES AND ANIMAL BEHAVIOR

CHEMICAL SIGNALS AND SIGNATURES

Cambridge University Press Explains how animals use chemical communication, emphasising the evolutionary context and covering fields from ecology to neuroscience and chemistry.

RETHINKING SOCIAL INQUIRY

DIVERSE TOOLS, SHARED STANDARDS

Rowman & Littlefield Publishers With innovative new chapters on process tracing, regression analysis, and natural experiments, the second edition of Rethinking Social Inquiry further extends the reach of this path-breaking book. The original debate with King, Keohane, and Verba now updated remains central to the volume, and the new material illuminates evolving discussions of essential methodological tools. Thus, process tracing is often invoked as fundamental to qualitative analysis, but is rarely applied with precision. Pitfalls of regression analysis are sometimes noted, but often are inadequately examined. And the complex assumptions and trade-offs of natural experiments are poorly understood. The second edition extends the methodological horizon through exploring these critical tools. A distinctive feature of this edition is the online placement of four chapters from the prior edition, all focused on the dialogue with King, Keohane, and Verba. Also posted online are exercises for teaching process tracing and understanding process tracing.

HUMAN ENERGY REQUIREMENTS

REPORT OF A JOINT FAO/WHO/UNU EXPERT CONSULTATION : ROME, 17-24 OCTOBER 2001

Food & Agriculture Org. "This important publication is the final report of the most recent expert group meeting, the Joint FAO/WHO/UNU Expert Consulation on Human Energy Requirements, convened in October 2001 at FAO headquarters in Rome, Italy ... FAO publishes this report on behalf of the three United Nations (UN agencies (FAO/WHO/UNU that organised the consultation" -- Foreword.

DATA MINING FOR BUSINESS ANALYTICS

CONCEPTS, TECHNIQUES, AND APPLICATIONS WITH XLMINER

John Wiley & Sons Data Mining for Business Analytics: Concepts, Techniques, and Applications in XLMiner®, Third Edition presents an applied approach to data mining and predictive analytics with clear exposition, hands-on exercises, and real-life case studies. Readers will work with all of the standard data methods using the Microsoft® Office Excel® add-in XLMiner® to develop predictive models and learn how to obtain business value from Big Data. Featuring updated topical coverage on text mining, social network analysis, collaborative filtering, ensemble methods, uplift modeling and more, the Third Edition also includes: Real-world examples to build a theoretical and practical understanding of key data mining methods End-of-chapter exercises that help readers better understand the presented material Data-rich case studies to illustrate various applications of data mining techniques Completely new chapters on social network analysis and text mining A companion site with additional data sets, instructors material that include solutions to exercises and case studies, and Microsoft PowerPoint® slides https://www.dataminingbook.com Free 140-day license to use XLMiner for Education software Data Mining for Business Analytics: Concepts, Techniques, and Applications in XLMiner®, Third Edition is an ideal textbook for upper-undergraduate and graduate-level courses as well as professional programs on data mining, predictive modeling, and Big Data analytics. The new edition is also a unique reference for analysts, researchers, and practitioners working with predictive analytics in the fields of business, finance, marketing, computer science, and information technology. Praise for the Second Edition "...full of vivid and thought-provoking anecdotes... needs to be read by anyone with a serious interest in research and marketing."– Research Magazine "Shmueli et al. have done a wonderful job in presenting the field of data mining - a welcome addition to the literature." – ComputingReviews.com "Excellent choice for business analysts...The book is a perfect fit for its intended audience." – Keith McCormick, Consultant and Author of SPSS Statistics For Dummies, Third Edition and SPSS Statistics for Data Analysis and Visualization Galit Shmueli, PhD, is Distinguished Professor at National Tsing Hua University's Institute of Service Science. She has designed and instructed data mining courses since 2004 at University of Maryland, Statistics.com, The Indian School of Business, and National Tsing Hua University, Taiwan. Professor Shmueli is known for her research and teaching in business analytics, with a focus on statistical and data mining methods in information systems and healthcare. She has authored over 70 journal articles, books, textbooks and book chapters. Peter C. Bruce is President and Founder of the Institute for Statistics Education at www.statistics.com. He has written multiple journal articles and is the developer of Resampling Stats software. He is the author of Introductory Statistics and Analytics: A Resampling Perspective, also published by Wiley. Nitin R. Patel, PhD, is Chairman and cofounder of Cytel, Inc., based in Cambridge, Massachusetts. A Fellow of the American Statistical Association, Dr. Patel has also served as a Visiting Professor at the Massachusetts Institute of Technology and at Harvard University. He is a Fellow of the Computer Society of India and was a professor at the Indian Institute of Management, Ahmedabad for 15 years.

INTERNATIONAL BOOKS IN PRINT

BEING MODERN

THE CULTURAL IMPACT OF SCIENCE IN THE EARLY TWENTIETH CENTURY

UCL Press In the early decades of the twentieth century, engagement with science was commonly used as an emblem of modernity. This phenomenon is now attracting increasing attention in different historical specialties. Being Modern builds on this recent scholarly interest to explore engagement with science across culture from the end of the nineteenth century to approximately 1940. Addressing the breadth of cultural forms in Britain and the western world from the architecture of Le Corbusier to working class British science fiction, Being Modern paints a rich picture. Seventeen distinguished contributors from a range of fields including the cultural study of science and technology, art and architecture, English culture and literature examine the issues involved. The book will be a valuable resource for students, and a spur to scholars to further examination of culture as an interconnected web of which science is a critical part, and to supersede such tired formulations as 'Science and culture'.

APPLICATIONS IN ELECTRONICS PERVADING INDUSTRY, ENVIRONMENT AND SOCIETY

APPLEPIES 2020

Springer This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2020 ApplePies Conference, held online in November 2020, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

THE PHYSICS OF RADIATION THERAPY

Lippincott Williams & Wilkins Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3-D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.

THE SECOND ECONOMIC ADJUSTMENT PROGRAMME FOR GREECE

FIRST REVIEW, DECEMBER 2012

Recoge: 1. Introduction - 2. Macroeconomic and financial developments - 3. Programme implementation - 4. Debt sustainability analysis and programme financing.

FOUNDATIONS OF STATISTICAL INFERENCE

PROCEEDINGS OF THE SHORESH CONFERENCE 2000

Springer Science & Business Media This volume is a collection of papers presented at a conference held in Shoresh Holiday Resort near Jerusalem, Israel, in December 2000 organized by the Israeli Ministry of Science, Culture and Sport. The theme of the conference was "Foundation of Statistical Inference: Applications in the Medical and Social Sciences and in Industry and the Interface of Computer Sciences". The following is a quotation from the Program and Abstract booklet of the conference. "Over the past several decades, the field of statistics has seen tremendous growth and development in theory and methodology. At the same time, the advent of computers has facilitated the use of modern statistics in all branches of science, making statistics even more interdisciplinary than in the past; statistics, thus, has become strongly rooted in all empirical research in the medical, social, and engineering sciences. The abundance of computer programs and the variety of methods available to users brought to light the critical issues of choosing models and, given a data set, the methods most suitable for its analysis. Mathematical statisticians have devoted a great deal of effort to studying the appropriateness of models for various types of data, and defining the conditions under which a particular method work. " In 1985 an international conference with a similar title* was held in Is rael. It provided a platform for a formal debate between the two main schools of thought in Statistics, the Bayesian, and the Frequentists.

SEPARATION PROCESS PRINCIPLES

WITH APPLICATIONS USING PROCESS SIMULATORS

Wiley Global Education Separation Process Principles with Applications Using Process Simulator, 4th EMEA Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice.

THE HUNDRED-PAGE MACHINE LEARNING BOOK

Provides a practical guide to get started and execute on machine learning within a few days without necessarily knowing much about machine learning.The first five chapters are enough to get you started and the next few chapters provide you a good feel of more advanced topics to pursue.

ADVANCES IN HIGH-EFFICIENCY LLC RESONANT CONVERTERS

NEW STATESMAN

GAMES AND SIMULATIONS IN SCIENCE EDUCATION

During the last few years, a large number of science-based games, simulations and case studies have been developed, and these are now starting to be built into the curricula of our schools, colleges and universities. The use of such exercises seems certain to increase as more and more teachers, lecturers and curriculum designers become aware of their great potential. Until now, however, these developments have been hampered by the fact that there has been no basic text on science-based games, and no source book to whcih potential users could refer to find out what exercises were available in their particular field. This book has been written in an attempt to fill both these gaps. - Introduction.