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A Guide to Research Methodology

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A Guide to Research Methodology Springer

Designed primarily as a text for the undergraduate and postgraduate students of industrial engineering, chemical engineering, production engineering, mechanical engineering, and quality engineering and management, it covers fundamentals as well as advanced concepts of Design of Experiments. The text is written in a way that helps students to independently design industrial experiments and to analyze for the inferences. Written in an easy-to-read style, it discusses different experimental design techniques such as completely randomized design, randomized complete block design and Latin square design. Besides this, the book also covers 2², 2³, and 3ⁿ factorial experiments; two-stage, three-stage and mixed design with nested factors and factorial factors; different methods of orthogonal array design; and multivariate analysis of variance (MANOVA) for one-way MANOVA and factorial MANOVA. KEY FEATURES : Case Studies to illustrate the concepts and techniques Chapter end questions on prototype reality problems Yates algorithm for 2ⁿ factorial experiments Answers to Selected

Questions

OPERATIONS RESEARCH Research Methodology From Philosophy of Science to Research Design

This comprehensive text designed for MBA, MCom, MA (Economics), MA (Sociology) and PhD (Management, Commerce, Economics, and Engineering) courses continues to give complete account of concepts and statistical tools of research methodology in its Second Edition. The textbook also serves as a reference for consultants to carryout projects/consultancies in industries or service organizations. **DISTINGUISHING FEATURES OF THE BOOK**

- Written in an easy to read style
- Each technique is illustrated with sufficient number of numerical examples
- Gives complete account of statistics and aspects of research methodology
- Chapter 8 gives complete account of testing of hypotheses
- Design and analysis of experiments, advanced multivariate analysis, multidimensional scaling and conjoint analysis, algorithmic research, models for industries and public systems, simulation are unique to this text.
- Graded chapter-end questions **NEW TO THIS EDITION** Introduction of a chapter on SPSS (Chapter 17), is new to this edition which gives readers an idea to obtain statistics for different techniques presented in this text. The different screenshots for different modules of SPSS applied to suitable example problems on sample session for data

creation, reports, descriptive statistics, tables, compare means, general linear model, correlation, simple regression, nonparametric tests, classify, data reduction and graphs help readers to understand the features of SPSS. AUDIENCE • MBA • MCom • MA (Economics) • MA (Sociology) and • PhD (Management, Commerce, Economics, and Engineering)

Innovative Water Resource Use and Management for Poverty Reduction in Sub-Saharan Africa: An Anthology
CRC Press

Designed as a text for undergraduate students (B.Tech./B.E.) of Computer Science and Engineering and IT, Mechanical Engineering and Mechatronics Engineering, and postgraduate students (M.Tech./M.E., M.Sc.) of Computer Science and Engineering and IT and Industrial Engineering, as well as for Bachelor and Master of Computer Applications (BCA/MCA), this well-organized book gives an in-depth analysis of the concepts of system simulation modelling and simulation languages. The book provides detailed discussions on the fundamental and advanced concepts of simulation. The book begins with the concept of system and the different terminologies associated with the system. Then it presents the different methods of random number generation and their tests. Besides, the text dwells on different probability distributions and their random variates, which are used in the simulation model, and describes various simulation languages such as GPSS, Simula I, SIMSCRIPT, CSL, GASP, OPS-3, DYNAMO, SIMAN and SLAM II. Further, it gives a comprehensive coverage of different queueing systems with illustrative examples as well as the logics of simulation model for both single-server and parallel-server queueing systems. The concluding chapters deal extensively with GPSS language, Arena simulation software and ProModel simulation software. Key Features • Follows a step-by-step approach to derive the test results. • Gives a large number of solved examples and well-designed chapter-end questions. • Includes several real-life Case Studies to illustrate the concepts discussed.

CRC Press

Increasingly, cruise operators are utilising information and communication technologies (ICTs) to improve service-effectiveness and process efficiency, both on- and off-board. Therefore, it is worth initiating a discussion on the potential and challenges ICTs entail for both cruise operators' back-offices and for cruisers' consumption experiences. This book documents the proceedings of the 1st e-Cruising Conference (Bremerhaven, Germany), which was aimed at discussing the possibilities and applicability of ICTs and mobile services in various aspects of cruise operations. Following a rigorous double-blind review, the best papers were chosen to be incorporated in this volume.

DESIGN AND ANALYSIS OF EXPERIMENTS GRIN Verlag
Like in many parts of the world, water resources in sub-Saharan Africa (SSA) have been pivotal for human survival, economic growth, social development, and practicing certain religion and cultural ethos. However, in spite of the intrinsic values of water, its use and management in sub-Saharan Africa has not been without limitations. The demand for water resources is increasing mainly due to rapid population growth, industrialization and urbanization and dealing with water-related issues has been complex and challenging for sustainable growth. Whilst there are various efforts by national governments, non-government organizations and communities to effectively and efficiently utilize and manage water resources, there are few comprehensive studies in sub-Saharan Africa that show the impact of the efforts on poverty reduction. Although certain reports indicate that many SSA countries lack clear vision on how water use can be harnessed with pro-poor growth and how poor communities can be capacitated to use water for poverty

reduction, there are little exhaustive studies that clearly show familiar and innovative water use and management interventions followed by communities, national governments and other stakeholders, and demonstrate the challenges and successes of the same. Cognizant of the knowledge gap, in 2012 OSSREA launched a research project on ordinary and innovative water use and management patterns and practices in SSA, with a view to generate new knowledge on unexploited opportunities that could enhance the contribution of water resources to poverty reduction. This anthology documents various issues including water use and management in agriculture especially in irrigation projects in Ethiopia, Kenya, Uganda and Zimbabwe; water harvesting in Kenya and Uganda; the role of local water use institutions in Ethiopia; and water source maintenance and protection in Uganda.

A Handbook for Beginners IGI Global

Research Methodology is meant to provide a broad guideline to facilitate and steer the whole of a research activity in any discipline. With the ambit and amount of research increasing by the day, the need for Research Methodology is being widely appreciated. Against this backdrop, we notice the dearth of well-written books on the subject. A Guide to Research Methodology attempts a balance between the generic approach to research in any domain and the wide array of research methods which are to be used in carrying out different tasks in any research. Discussions on these research methods appropriate in various disciplines have focused on the research tasks, keeping in mind the fact that a single such task like a comparison among alternatives may involve several methods from seemingly distinct areas. Unique features of this volume, as will be evident to a discerning reader, include: A detailed discussion on problem areas for research in several domains An illustrative and amplified list of research problems drawn from different disciplines which can be pursued by interested research workers A comprehensive delineation of Research Design supported by illustrations An elaborate engagement with models with a note on model uncertainty Focus on recent and emerging models, methods and techniques A novel treatment of data analysis where the nature of data and the objective(s) of analysis justify drawing upon a variety of techniques for analysis This book will serve the purpose of a pre-PhD or a Master-level course-work for students of any discipline with a basic knowledge of quantitative analysis. In fact, anyone aspiring to take up meaningful research work will find the content useful and interesting.

Paradigms and Applications Sterling Publishers Pvt. Ltd

About the Book: This second edition has been thoroughly revised and updated and efforts have been made to enhance the usefulness of the book. In this edition a new chapter The Computer: Its Role in Research have been added keeping in view of the fact that

RESEARCH METHODOLOGY SAGE

Research Methodology: From Philosophy of Science to Research Design distinguishes itself from many other works devoted to research methodology and the philosophy of science in its integrated approach towards scientific research, which is regarded as the scientific project on all levels—from philosophy of science to research design. This work studies the basics of the methodology of scientific research and the organization of scientific activity from the viewpoint of systems science and system analysis. The book discusses the basics of the methodology including philosophical, psychological, epistemological and ethical/aesthetical foundations, the characteristics of scientific activity, including principles of scientific cognition, the means and methods of scientific research, the organization of a research implementation process

and its chronological structure and finally, the organization of a collective scientific research design. The work should be of interest to researchers, students and professionals in the fields of systems science, cybernetics, systems engineering, philosophy of science and project management, as well as to specialists of applied activity in the fields of operations research, programming, mathematical modeling of decision-making in organizations and economics.

Project Management BoD - Books on Demand

Software is the essential enabling means for science and the new economy. It helps us to create a more reliable, flexible and robust society. But software often falls short of our expectations. Current methodologies, tools, and techniques remain expensive and are not yet sufficiently reliable, while many promising approaches have proved to be no more than case-by-case oriented methods. This book contains extensively reviewed papers from the eleventh International Conference on New Trends in software Methodology, Tools and Techniques (SoMeT_12), held in Genoa, Italy, in September 2012. The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques, and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business. The emphasis has been on human-centric software methodologies, end-user development techniques and emotional reasoning, for an optimally harmonized performance between the design tool and the user. Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models. This book provides an opportunity for the software science community to show where we are today and where the future may take us.

System Simulation, Modelling and Languages Venu Prasath

The second edition of this well-organized and comprehensive text continues to provide an in-depth coverage of the theory and applications of operations research. It emphasizes the role of operations research not only as an effective decision-making tool, but also as an essential productivity improvement tool to deal with real-world management problems. This New Edition includes new carefully designed numerical examples that help in understanding complex mathematical concepts better. The book is an easy read, explaining the basics of operations research and discussing various optimization techniques such as linear and non-linear programming, dynamic programming, goal programming, parametric programming, integer programming, transportation and assignment problems, inventory control, and network techniques. It also gives a comprehensive account of game theory, queueing theory, project management, replacement and maintenance analysis, and production scheduling. NEW TO THIS EDITION Inclusion of quantity discount models for transportation problem. Updated inventory control model and detailed discussion on application of dynamic programming in the fields of cargo loading and single-machine scheduling. Numerous new examples that explain the operations research concepts better. New questions with complete solutions to selected problems. This book, with its many student friendly features, would be eminently suitable as a text for students of engineering (mechanical, production and industrial engineering), management, mathematics, statistics, and postgraduate students of commerce and computer applications (MCA).

Applied Bioinformatics, Statistics & Economics in Fisheries Research PHI Learning Pvt. Ltd.

Research Methodology From Philosophy of Science to Research

Design CRC Press

Information and Decision Support Systems John Wiley & Sons

The book *Encyclopaedia of Engineering Chemistry* ment for Engineering students. The present book is an attempt to fulfil the need of all engineering. Students of U.P.T.U. and as well as for the engineering students of other state. It cover the complete syllabus of chemistry prescribed by Technical Universities. The treatment given is simple lucid and comprehensive. Contents: Vol. I: 1. Water and its Treatment; 2. Stereochemistry of Carbon Compounds; 3. Corrosion and Its Preventions. Vol. II: 1. Fuels; 2. Chemical Bonding; 3. Environmental Chemistry; 4. Structure of Solids. Vol. III: 1. Polymers; 2. Molecular Structure and Chemical Bonding; 3. Chemical Kinetics; 4. Phase Reactions; 5. Electrochemistry. Vol. IV: 1. Organic Reaction Mechanism; 2. Analysis of Organic Compounds; 3. Conformational Analysis; 4. Electronic Theory of Valency; 5. Mechanism of the Walden Inversion.

Computational Optimization in Engineering Discovery Publishing House

In this research the author recommends increased use of bonds as a financing instrument in emerging markets. It is common in the current market condition where a borrower from emerging markets had to go into complex process for gaining infrastructure investments compared to a borrower from a developed country all due to credit risk involved. In this research, the author developed an improved credit enhancement process that might help borrowers in emerging markets increase investments in a less complex way than the previous condition. The potential of bonds as infrastructure financing upgrading it with credit enhancement feature to fit in and reduce the funding gap and increase the infrastructure investments in emerging markets. Making it a significant tool for mitigating the credit risk involved in emerging markets.

From Philosophy of Science to Research Design Bookboon

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Proceedings of the Eleventh SoMeT%5F12 Discovery Publishing House

Primarily designed for the postgraduate students of computer science, information technology, software engineering and management, this book, now in its Third Edition, continues to provide an excellent coverage of the basic concepts involved in database management systems. It provides a thorough treatment of some important topics such as data structure, data models and database design through presentation of well-defined algorithms,

examples and real-life cases. A detailed coverage of Database Structure, Implementation Design, Hierarchical Database Management Systems, Network Database Management Systems and Relational Database Management Systems, is also focused in this book. This book will also be useful for B.E./B.Tech. students of Computer Science and Engineering and Software Engineering.

NEW TO THIS EDITION • Introduces three new chapters on relational database languages, namely, Relational Database Management Systems: Oracle 11g SQL, Relational Database Management Systems: Oracle 11g PL/SQL, and Relational Database Management Systems: Access 2013. • Text interspersed with numerous screenshots for practical understanding of the text. • Clearly explained procedures in a step-by-step manner with chapter-end questions. • Self-explanatory, labelled figures and tables to conceptual discussion.

Modern Techniques of Rice Crop Production Vikas Publishing House

With reference to India; contributed articles.

New Trends in Software Methodologies, Tools and Techniques OSSREA

Contents: Introduction, Review of Related Research, Methodology of Research, Analysis of Data, Summary, Conclusions and Suggestions.

ENGINEERING ECONOMICS PHI Learning Pvt. Ltd.

This book provides introductory materials on research methods and report writing that aim at guiding students and researchers towards effective research and reporting of their findings. Unlike the many volumes on research that are mostly theoretical, this book originated in the classroom and grew out of the students' own needs to design and conduct satisfactory research in order to meet academic requirements. It is also designed to help experienced researchers in their research ventures. In fulfilling this purpose, the author uses simple, straightforward language. He also provides appropriate examples and illustrations to enable the reader to grasp the basic concepts of research. The book will prove a useful guide for students and researchers in social

sciences and humanities who wish to transform research theory into real and feasible research projects.

Reasoning Ability of School Students PHI Learning Pvt. Ltd.

With the growth of information technology—and the Internet in particular—many new communication channels and platforms have emerged. These platforms are focused on being not only user friendly, but also highly interactive, providing many unique ways to create and distribute content. Capturing, Analyzing, and Managing Word-of-Mouth in the Digital Marketplace explores the way these new channels and platforms affect our everyday interactions, particularly as they relate to meaning, growth, and recent trends, practices, issues, and challenges surrounding the world of modern marketing. Featuring a special emphasis on social media, blogging, viral marketing, and other forms of e-communication, this timely reference source is essential for students, researchers, academics, and marketing practitioners.

Concepts, Methodologies, Tools, and Applications Pearson Education India

Written specifically for students with no previous experience of research and research methodology, the Third Edition of *Research Methodology* breaks the process of designing and doing a research project into eight manageable steps and provides plenty of examples throughout to link theory to the practice of doing research. The book contains straightforward, practical guidance on: - Formulating a research question - Ethical considerations - Carrying out a literature review - Choosing a research design - Selecting a sample - Collecting and analysing qualitative and quantitative data - Writing a research report The third edition has been revised and updated to include extended coverage of qualitative research methods in addition to the existing comprehensive coverage of quantitative methods. There are also brand new learning features such as reflective questions throughout the text to help students consolidate their knowledge. The book is essential reading for undergraduate and postgraduate students in the social sciences embarking on qualitative or quantitative research projects.

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