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## How to Write a Good Scientific Paper

### Pm286

*Many scientists and engineers consider themselves poor writers or find the writing process difficult. The good news is that you do not have to be a talented writer to produce a good scientific paper, but you do have to be a careful writer. In particular, writing for a peer-reviewed scientific or engineering journal requires learning and executing a specific formula for presenting scientific work. This book is all about teaching the style and conventions of writing for a peer-reviewed scientific journal. From structure to style, titles to tables, abstracts to author lists, this book gives practical advice about the process of writing a paper and getting it published.*

# Empirical Research and Writing

## A Political Science Student's Practical Guide

*CQ Press Students can easily misstep when they first begin to do research. Leanne C. Powner's new title Empirical Research and Writing: A Student's Practical Guide provides valuable advice and guidance on conducting and writing about empirical research. Chapter by chapter, students are guided through the key steps in the research process. Written in a lively and engaging manner and with a dose of humor, this practical text shows students exactly how to choose a research topic, conduct a literature review, make research design decisions, collect and analyze data, and then write up and present the results. The book's approachable style and just-in-time information delivery make it a text students will want to read, and its wide-ranging and surprisingly sophisticated coverage will make it an important resource for their later coursework.*

## Bulletin of the Atomic Scientists

*The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.*

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## Introduction to Probability

*CRC Press Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an*

*eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.*

## Global Trends 2030

### Alternative Worlds

*Createspace Independent Publishing Platform This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in Global Trends 2030, including: a review of the four previous Global Trends reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming*

*Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics, geopolitical changes*

## Game Theory

### An Introduction

*Princeton University Press The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students*

## Service Quality

*SAGE In this book leading scholars and practitioners present the latest research and theory in customer satisfaction and services marketing with a wealth of stimulating ideas. Topics discussed include: the measurement of the managerial impact on service quality improvement; new methods of assessing the various elements of service quality; and philosophies of the nature of customer value. The diverse viewpoints of the contributors reveal the variety of emerging ideas on the subject of service quality.*

## Bulletin of the Atomic Scientists

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## Resources in Education

## Current Index to Journals in Education

## CIJE.

## Global Trends 2030

## Alternative Worlds : a Publication of the National

# Intelligence Council

*U.S. Government Printing Office This report is intended to stimulate thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories over the next 15 years. As with the NIC's previous Global Trends reports, we do not seek to predict the future, which would be an impossible feat, but instead provide a framework for thinking about possible futures and their implications. In-depth research, detailed modeling and a variety of analytical tools drawn from public, private and academic sources were employed in the production of Global Trends 2030. NIC leadership engaged with experts in nearly 20 countries, from think tanks, banks, government offices and business groups, to solicit reviews of the report.*

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*The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.*

# Constructing Research Questions

# Doing Interesting Research

*SAGE All researchers want to produce interesting and influential theories. A key step in all theory development is formulating innovative research questions that will result in interesting and significant research. Traditional textbooks on research methods tend to ignore, or gloss over, actual ways of constructing research questions. In this text, Alvesson and Sandberg develop a problematization methodology for identifying and challenging the assumptions underlying existing theories and for generating research questions that can lead to more interesting and influential theories, using examples from across the social sciences. Established methods of generating research questions in the social sciences tend to focus on 'gap-spotting', which means that existing literature remains largely unchallenged. The authors show the dangers of conventional approaches, providing detailed ideas for how one can work through such problems and formulate novel research questions that challenge existing theories and produce more imaginative empirical studies. Constructing Research Questions is essential reading for any researcher looking to formulate research questions that are interesting and novel.*

# Carbon Dioxide Capture and Storage

## Special Report of the Intergovernmental Panel on Climate Change

*Cambridge University Press IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and engineers.*

# Information Theory, Inference and Learning Algorithms

*Cambridge University Press Table of contents*

# PISA Take the Test Sample Questions from OECD's PISA Assessments

# Sample Questions from OECD's PISA Assessments

*OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.*

# Twenty Lectures on Algorithmic Game Theory

*Cambridge University Press Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from*

resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

## Evaluation Roots

### Tracing Theorists' Views and Influences

*SAGE Evaluation Roots: Tracing Theorists' Views and Influences* examines current evaluation theories and traces their evolution within the framework of theories, building upon theories and how evaluation theories are related to each other. Initially, all evaluation was derived from social science research methodology and accountability concerns. The way in which these evaluation roots grew to form a tree helps to provide a better understanding of evaluation theory. Thus, the book uses an evaluation theory tree as its central metaphor. Editor Marvin C. Alkin posits that evaluation theories can be classified by the extent to which they focus on methods, uses, or valuing; these three approaches form the major limbs of the tree.

## International Development Studies

### Theories and Methods in Research and Practice

*SAGE 'A sure-footed and self-confident book, ambitious in scope, authoritative in execution and practical in its implications' - Simon Maxwell, Director, Overseas Development Institute, London 'At last, a development studies text that encourages self-reflection from within the discipline. Highly recommended' - Professor Ray Kiely, Chair in International Politics, Queen Mary University of London 'This is the book that academics, development researchers and practitioners have been seeking for a long time. [It] addresses the most important issues which development researchers and practitioners cope with each and every day' - Dr Tran Tuan, Director, Research and Training Centre for Community Development, Hanoi, Vietnam. 'An insightful book for both development practitioners and*

*researchers alike' - Professor K.N. Nair, Director Centre for Development Studies, Kerala, India This book is about working professionally in Development Studies as a student, researcher or practitioner. It introduces and addresses the fundamental questions that everyone engaged with development must ask: " What is 'development' and why do we wish to study it? " How do the many theoretical, methodological and epistemological approaches relate to research and practical studies in development? " How are development research and practice linked? Accessibly written, with extensive use of case study material, this book is an essential primer for students of development studies who require a concise, penetrating overview of its foundations. It is also core reading for students and practitioners concerned with the design of studies in the course of policy analysis, sector reviews, or project formulation, management and evaluation.*

## Journal of Research of the National Bureau of Standards

### Interpreting Interviews

*SAGE Researchers conducting interviews in the social sciences quickly find that there is no single best way to approach their task. This text offers a critique of traditional interviewing practices and provides a framework for thinking about issues such as trustworthiness, identity and language in a conceptual rather than technical context, allowing you to develop your own reflexive practice. The research interview is in with the brick and mortar of qualitative research, and is one of the routine methods of obtaining knowledge of individuals, groups and organizations. Through the use of eight original metaphors drawing on trends in language, subject and discourse, this cutting-edge text will encourage you to question the interpretive nature and theoretical underpinnings not only of your interview method, but of the knowledge which is conveyed through it. This text is essential reading for postgraduate students of qualitative methods and researchers looking to more clearly conceptualise their interviewing practice and explore its theoretical basis.*

## Export and Import Price Index Manual: Theory and Practice

*OECD Publishing A joint production by six international organizations, this manual explores the conceptual and theoretical issues that national statistical offices should consider in the daily compilation of export and import price indices. Intended for use by both ...*

# Strengthening Forensic Science in the United States

## A Path Forward

*National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.*

## The Athenaeum

## Convex Optimization

*Cambridge University Press A comprehensive introduction to the tools, techniques and applications of convex optimization.*

## Monthly Catalogue, United States Public Documents

# Monthly Catalog of United States Government Publications

## Scientific and Technical Aerospace Reports

### Paper Coatings Based on Polymers, 1971

*William Andrew*

## Principles of Methodology

### Research Design in Social Science

*SAGE This book provides a comprehensive, accessible guide to social science methodology. In so doing, it establishes methodology as distinct from both methods and philosophy. Most existing textbooks deal with methods, or sound ways of collecting and analysing data to generate findings. In contrast, this innovative book shows how an understanding of methodology allows us to design research so that findings can be used to answer interesting research questions and to build and test theories. Most important things in social research (e.g., beliefs, institutions, interests, practices and social classes) cannot be observed directly. This book explains how empirical research can nevertheless be designed to make sound inferences about their nature, effects and significance. The authors examine what counts as good description, explanation and interpretation, and how they can be achieved by striking intelligent trade-offs between competing design virtues. Coverage includes: • why methodology matters; • what philosophical arguments show us about inference; • competing virtues of good research design; • purposes of theory, models and frameworks; • forming researchable concepts and typologies; • explaining and interpreting: inferring causation, meaning and significance; and • combining explanation and interpretation. The book is essential reading for new researchers faced with the practical challenge of designing research. Extensive examples and exercises are provided, based on the authors' long experience of teaching methodology to multi-disciplinary*

groups. Perri 6 is Professor of Social Policy in the Graduate School in the College of Business, Law and Social Sciences at Nottingham Trent University. Chris Bellamy is Emeritus Professor of Public Administration in the Graduate School, Nottingham Trent University.

## Chemical Engineering Design

# Principles, Practice and Economics of Plant and Process Design

*Elsevier Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment*

*selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors*

## Understanding Machine Learning

### From Theory to Algorithms

*Cambridge University Press Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.*

## Hazardous Cargo Bulletin

### Creating Collaborative Advantage

*SAGE Inter-organizational collaboration is becoming increasingly significant as a means of achieving organizational objectives in turbulent environments. Yet it is not an easy process to implement successfully. Drawing on the work of authors with a high level of relevant experience, this volume provides a thought-provoking and accessible introduction to the theory and practice of 'creating collaborative advantage'. The first part of the book develops a framework of key dimensions for understanding collaboration. Different perspectives highlight the diversity of rationales and contexts involved, and the range of elements which need to be considered and addressed when embarking on collaborative endeavours. The second section focuses in more detail on collaboration in practice. It examines the problems that can occur when different 'stakeholders', who frequently hold different aims, cultures, procedures, professional languages and power resources, work across organizational boundaries. The last section addresses specifically the processes of acting as a facilitator to collaborative groups. It discusses how and why a third party facilitator role can be helpful, and explores the various processes and techniques that can be used.*

Work Related Abstracts

Exceptional Child Education Resources

Solved Problems in Classical Mechanics

Analytical and Numerical Solutions with Comments

*Oxford University Press simulated motion on a computer screen, and to study the effects of changing parameters. --*

Elements of Information Theory

*John Wiley & Sons The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features: \* Chapters reorganized to improve teaching \* 200 new problems \* New material on source coding, portfolio theory, and feedback capacity \* Updated references Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.*

# CAD/CAM Abstracts