

Quantitative Method For Business Decision 6th Edition

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JAYASWAL Bijay K. Jayaswal 2007-03-01 This is the eBook version of the printed book. The Analytic Hierarchy Process (AHP) is an advanced technique that supports decision makers in structuring complex decisions, quantifying intangible factors, and evaluating choices in multiobjective decision situations. It is a comprehensive and rational decision-making framework that provides a powerful methodology for determining relative worth among a set of elements. AHP is especially suitable for complex decisions that involve the comparison of decision elements which are difficult to quantify. The AHP, and its more recent version the Analytic Network Process (ANP), were developed by Dr. Thomas Saaty and have been applied in a wide variety of decision situations in organizations worldwide. AHP is particularly applicable in managing software complexity, and in Quality Function Deployment (QFD), as presented in Chapter 11 of the book *Design for Trustworthy Software*. This short cut illustrates the application of AHP in prioritizing complex design issues. It also shows how AHP and its supporting software, Expert Choice (EC), can handle much higher levels of complexities accurately and expeditiously than the prioritization matrices introduced in Chapter 7 of *Design for Trustworthy Software*. In addition to solutions facilitated by EC, this short cut also illustrates two known approximations to AHP solutions using manual calculations. Manual calculations can be used to solve relatively less complex problems. They are presented in this short cut to illustrate the first principles and the steps involved in AHP. This short cut is a reproduction of Chapter 8 of the book *Design for Trustworthy Software* and introduces AHP with a simple example. It can be used either as a methodology in trustworthy software design process or as a standalone introductory presentation on AHP. This short cut should be of interest to software and quality professionals. In particular, it would be of value to the CMMI, Six Sigma, and DFSS communities worldwide, especially those who have acquired or plan to acquire Green Belt, Black Belt, Master Black Belt, or similar competencies in various quality management disciplines. It should also be a useful resource for students and academicians of various programs at senior undergraduate and graduate levels, and for those preparing for ASQ's Certified Software Quality Engineer (CSQE) examination. What This Short Cut Covers 3 Introduction 4 Prioritization, Complexity, and the Analytic Hierarchy Process 4 Multiobjective Decision-Making and AHP 5 Case Study 1 Solution Using Expert Choice 12 Approximations to AHP with Manual Calculations 22 Conclusion 33 Key Points 33 Additional Resources 34 Internet Exercises 34 Review Questions 34 Discussion Questions and Projects 35 Problems 36 Endnotes 45 What's in the Book *Design for Trustworthy Software* 47 About the Authors 52 The *Design for Trustworthy Software* Digital Short Cut Compilation 53

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Design for Trustworthy Software Bijay K. Jayaswal 2006-08-31 ASQ 2007 CROSBY MEDAL WINNER! An Integrated Technology for Delivering Better Software—Cheaper and Faster! This book presents an integrated technology, *Design for Trustworthy Software (DFTS)*, to address software quality issues upstream such that the goal of software quality becomes that of preventing bugs in implementation rather than finding and eliminating them during and after implementation. The thrust of the technology is that major quality deployments take place before a single line of code is written! This customer-oriented integrated technology can help deliver breakthrough results in cost, quality, and delivery schedule thus meeting and exceeding customer expectations. The authors describe the principles behind the technology as well as their applications to actual software design problems. They present illustrative case studies covering various aspects of DFTS technology including CoSQ, AHP, TRIZ, FMEA, QFD, and Taguchi Methods and provide ample questions and exercises to test the readers understanding of the material in addition to detailed examples of the applications of the technology. The book can be used to impart organization-wide learning including training for DFTS Black Belts and Master Black Belts. It helps you gain rapid mastery, so you can deploy DFTS Technology quickly and successfully. Learn how to • Plan, build, maintain, and improve your trustworthy software development system • Adapt best practices of quality, leadership, learning, and management for the unique software development milieu • Listen to the customer's voice, then guide user expectations to realizable, reliable software products • Refocus on customer-centered issues such as reliability, dependability, availability, and upgradeability • Encourage greater design creativity and innovation • Validate, verify, test, evaluate, integrate, and maintain software for trustworthiness • Analyze the financial impact of software quality • Prepare your leadership and infrastructure for DFTS *Design for Trustworthy Software* will help you improve quality whether you develop in-house, outsource, consult, or provide support. It offers breakthrough solutions for the entire spectrum of software and quality professionals—from developers to project leaders, chief software architects to customers. The American Society for Quality (ASQ) is the world's leading authority on quality which provides a community that advances learning, quality improvement, and knowledge exchange to improve business results, and to create better workplaces and communities worldwide. The Crosby Medal is presented to the individual who has authored a distinguished book contributing significantly to the extension of the philosophy and application of the principles, methods, or techniques of quality management. Bijay K. Jayaswal, CEO of Agilent Consulting Group, has held senior executive positions and consulted on quality and strategy for 25 years. His expertise includes value engineering, process improvement, and product development.

He has directed MBA and Advanced Management programs, and helped to introduce enterprise-wide reengineering and Six Sigma initiatives. Dr. Peter C. Patton, Chairman of Agilent Consulting Group, is Professor of Quantitative Methods and Computer Science at the University of St. Thomas. He served as CIO of the University of Pennsylvania and CTO at Lawson Software, and has been involved with software development since 1955.

Quantitative Methods for Decision Makers PDF eBook Mik Wisniewski 2016-03-02 Appealing both to students on introductory courses for quantitative methods and MBA students, this well-respected text provides an accessible introduction to an area that students often find difficult. As a manager, developing a good understanding of the business analysis techniques at your disposal is crucial. Knowing how and when to use them and what their results really mean can be the difference between making a good or bad decision and, ultimately, between business success and failure. Quantitative Methods for Decision Makers helps students to understand the relevance of quantitative methods of analysis to manager's decision-making by relating techniques directly to real-life business decisions in public and private sector organisations and focusing on developing appropriate skills and understanding of how the techniques fit into the wider management process. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Quantitative Methods for Business Donald Waters 2008 Quantitative Methods for Business has been thoroughly revised and updated for this 4th edition, and continues to provide a simple and practical introduction to an area that students can find difficult. The book takes a non-threatening approach to the subject, avoiding excessive mathematics and abstract theory. It shows how to apply quantitative ideas to the real problems faced by managers. The book includes numerous exercises and examples that help students understand the relevance of quantitative ideas to business. Assuming no previous knowledge, the text provides complete coverage for a first course in quantitative methods.

Business Analytics: Data Analysis & Decision Making S. Christian Albright 2016-03-31 Master data analysis, modeling, and spreadsheet use with BUSINESS ANALYTICS: DATA ANALYSIS AND DECISION MAKING, 6E! Popular with students, instructors, and practitioners, this quantitative methods text delivers the tools to succeed with its proven teach-by-example approach, user-friendly writing style, and complete Excel 2016 integration. It is also compatible with Excel 2013, 2010, and 2007. Completely rewritten, Chapter 17, Data Mining, and Chapter 18, Importing Data into Excel, include increased emphasis on the tools commonly included under the Business Analytics umbrella -- including Microsoft Excel's "Power BI" suite. In addition, up-to-date problem sets and cases provide realistic examples to show the relevance of the material. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Quantitative Methods for Management with Decision Support Software (DSS) Mark Atchison 1998

Fuzzy Systems and Data Mining IV A.J. Tallón-Ballesteros 2018-11-06 Big Data Analytics is on the rise in the last years of the current decade. Data are overwhelming the computational capacity of high performance servers. Cloud, grid, edge and fog computing are a few examples of the current hype. Computational Intelligence offers two faces to deal with the development of models: on the one hand, the crisp approach, which considers for every variable an exact value and, on the other hand, the fuzzy focus, which copes with values between two boundaries. This book presents 114 papers from the 4th International Conference on Fuzzy Systems and Data Mining (FSDM 2018), held in Bangkok, Thailand, from 16 to 19 November 2018. All papers were carefully reviewed by program committee members, who took into consideration the breadth and depth of the research topics that fall within the scope of FSDM. The acceptance rate was 32.85%. Offering a state-of-the-art overview of fuzzy systems and data mining, the publication will be of interest to all those whose work involves data science.

Quantitative Methods for Business (Book Only) David R. Anderson 2012-02-15 Develop a strong conceptual understanding of the role that quantitative methods play in today's decision-making process. Written for the non-mathematician, this applications-oriented text introduces today's many quantitative methods, how they work, and how decision makers can most effectively apply and interpret data. A strong managerial orientation motivates while actual examples illustrate situations where quantitative methods make a difference in decision making. A strong Problem-Scenario Approach helps you understand and apply mathematical concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Business for Foundation Degrees and Higher Awards Robert Dransfield 2004 Business for Foundation Degrees and Higher Awards gives students the underpinning knowledge they need to succeed in one volume. A core textbook covering the first two years of a degree programme written for the Foundation Degree and the Higher National Diploma.

Driving Innovation and Productivity Through Sustainable Automation Amini, Ardavan 2021-02-26 Industry 4.0 and the subsequent automation and digitalization of processes, including the tighter integration of machine-machine and human-machine intercommunication and collaboration, is adding additional complexity to future systems design and the capability to simulate, optimize, and adapt. Current solutions lack the ability to capture knowledge, techniques, and methods to create a sustainable and intelligent nerve system for enterprise systems. With the ability to innovate new designs and solutions, as well as automate processes and decision-making capabilities with heterogenous and holistic views of current and future challenges, there can be an increase in productivity and efficiency through sustainable automation. Therefore, better understandings of the underpinning knowledge and expertise of sustainable automation that can create a sustainable cycle that drives optimal automation and innovation in the field is needed Driving Innovation and Productivity Through Sustainable Automation enhances the understanding and the knowledge for the new ecosystems emerging in the Fourth Industrial Revolution. The chapters provide the knowledge and understanding of current challenges and new capabilities and solutions having been researched, developed, and applied within the industry to drive sustainable automation for innovation and productivity. This book is ideally intended for managers, executives, IT specialists, practitioners, stakeholders, researchers, academicians, and students who are interested

in the current research on sustainable automation.

Research Methodology John Kuada 2012 *Research Methodology* is written for university and college students who are looking for guidelines when writing for a research project. It describes some of the most influential methods in social science and speaks directly to students without any prior knowledge of project work. Written in a simple, straight-forward, and a highly engaging style, the book takes the reader through the essential features of the project work process and guides students in making key decisions that will reduce the anxieties they are likely to experience in their research process. The book also introduces students to the nature of their group work process and provides guidelines on how to work with other students in order to produce good projects. It is intended as a supplementary textbook for courses in research methodology, for bachelor and master's degree students. Highlights of the issues discussed include: structure of projects * research design * the role of theories in research projects * paradigms and philosophy of science * qualitative and quantitative data collection methods and techniques * mixed research methods.

The Economist Numbers Guide 6th Edition The Economist 2013-12-12 Designed as a companion to *The Economist Style Guide*, the best-selling guide to writing style, *The Economist Numbers Guide* is invaluable for everyone who has to work with numbers, which in today's commercially focussed world means most managers. In addition to general advice on basic numeracy, the guide points out common errors and explains the recognised techniques for solving financial problems, analysing information of any kind, forecasting and effective decision making. Over 100 charts, graphs, tables and feature boxes highlight key points, and great emphasis is put on the all-important aspect of how you present and communicate numerical information effectively and honestly. At the back of the book is an extensive A-Z dictionary of terms covering everything from amortisation to zero-sum game. Whatever your business, whatever your management role, for anyone who needs a good head for figures *The Economist Numbers Guide* will prove invaluable.

Introduction to Business Statistics Ronald M. Weiers 1994

Quantitative Methods for Business David R. Anderson 2015-01-15 Written with the non-mathematician in mind, *QUANTITATIVE METHODS FOR BUSINESS, 13E* by award-winning authors Anderson, Sweeney, Williams, Camm, Cochran, Fry, and Ohlmann equips your students with a strong conceptual understanding of the critical role that quantitative methods play in today's decision-making process. This applications-oriented text clearly introduces current quantitative methods, how they work, and how savvy decision makers can most effectively apply and interpret data. A strong managerial orientation motivates learning by weaving relevant, real-world examples throughout. The authors' hallmark Problem-Scenario Approach helps readers understand and apply mathematical concepts and techniques. The 13th Edition includes a more holistic description of how variable activity times affect the probability of a project meeting a deadline. In addition, numerous all-new Q.M. in Action vignettes, homework problems, and end-of-chapter cases are included. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Practical Management Science Wayne L. Winston 1997 *Practical Management Science* by Wayne Winston and Chris Albright teaches you by example to formulate and solve real problems from finance, marketing, and operations with a spreadsheet. This new spreadsheet modeling approach gives you a powerful set of analytical thinking tools that you can apply not only to your major area of study but ultimately to your professional career. Spreadsheet modeling and management science provide you with the ability to quantify complex problems and clearly illustrate optimum business decisions. Mastering the concepts introduced in this book will give you deeper insights into your field of study and key advantages in the workplace.

Books in Print 1993

Modern Construction Management Prof. Frank Harris 2013-02-28 This new edition of a core undergraduate textbook for construction managers reflects current best practice, topical industry preoccupations and latest developments in courses and fundamental subjects for students. While the construction process still requires traditional skills, changes over recent decades today demand improved understanding of modern business, production and contractual practices. The authors have responded accordingly and the book has undergone a thorough re-write, eliminating some of the older material and adding new processes now considered essential to achieving lean construction. Particular emphasis is given, for example, to supply chains and networks, value and risk management, BIM, ICT, project arrangements, corporate social responsibility, training, health and welfare and environmental sustainability. *Modern Construction Management* presents construction as a socially responsible, innovative, carbon-reducing, manager-involved, people-orientated, crisis-free industry that is efficient and cost effective. The overall themes for the Seventh Edition are: Drivers for efficiency: lean construction underpinning production management and off-site production methods. Sustainability: reflecting the transition to a low carbon economy. Corporate Social Responsibility: embracing health & safety, modernistic contracts, effective procurement, and employment issues. Building Information Management: directed towards the improvement of construction management systems. The comprehensive selection of worked examples, based on real and practical situations in construction management and methods will help to consolidate learning. A companion website at <http://www.wiley.com/go/MCM7> offers invaluable support material for both tutors and students: Solutions to the self-learning exercises PowerPoint slides with discussion topics Journal and web references Structured to reflect site, business and corporate responsibilities of managers in construction, the book continues to provide strong coverage of the salient elements required for developing and equipping the modern construction manager with the competencies and skills for both technical and business related areas.

Instructor's Manual to Accompany Quantitative Methods for Business Decisions Lawrence L. Lapin 1994

Research Methods for Tourism Students Ramesh Durbarry 2017-12-12 This introductory guide offers innovative ideas and strategies to students undertaking their first social science research work. Academically rigorous yet accessible, it uses a systematic step-by-step approach to illustrate the research process and its applications to the tourism industry. Students are presented with numerous examples and case studies, linking theory with practice. The textbook provides a balanced coverage of both qualitative and quantitative methods, accompanying students throughout the process of selecting a research topic and specifying research questions, aims and objectives. A range of pedagogical features such as discussion questions, practical tips and examples enable students to review the literature, understand models and methodologies, analyse and interpret data (quantitative and qualitative) and ultimately write up their findings.

Featuring contributions by a group of academics with expertise in their respective fields, the book provides a comprehensive and engaging introduction to research methods. This is an essential resource to tourism students and will also be of interest to researchers in any social science subject.

Quantitative Methods Paolo Brandimarte 2012-01-03 An accessible introduction to the essential quantitative methods for making valuable business decisions. Quantitative methods—research techniques used to analyze quantitative data—enable professionals to organize and understand numbers and, in turn, to make good decisions. *Quantitative Methods: An Introduction for Business Management* presents the application of quantitative mathematical modeling to decision making in a business management context and emphasizes not only the role of data in drawing conclusions, but also the pitfalls of undiscerning reliance of software packages that implement standard statistical procedures. With hands-on applications and explanations that are accessible to readers at various levels, the book successfully outlines the necessary tools to make smart and successful business decisions. Progressing from beginner to more advanced material at an easy-to-follow pace, the author utilizes motivating examples throughout to aid readers interested in decision making and also provides critical remarks, intuitive traps, and counterexamples when appropriate. The book begins with a discussion of motivations and foundations related to the topic, with introductory presentations of concepts from calculus to linear algebra. Next, the core ideas of quantitative methods are presented in chapters that explore introductory topics in probability, descriptive and inferential statistics, linear regression, and a discussion of time series that includes both classical topics and more challenging models. The author also discusses linear programming models and decision making under risk as well as less standard topics in the field such as game theory and Bayesian statistics. Finally, the book concludes with a focus on selected tools from multivariate statistics, including advanced regression models and data reduction methods such as principal component analysis, factor analysis, and cluster analysis. The book promotes the importance of an analytical approach, particularly when dealing with a complex system where multiple individuals are involved and have conflicting incentives. A related website features Microsoft Excel® workbooks and MATLAB® scripts to illustrate concepts as well as additional exercises with solutions. *Quantitative Methods* is an excellent book for courses on the topic at the graduate level. The book also serves as an authoritative reference and self-study guide for financial and business professionals, as well as readers looking to reinforce their analytical skills.

Quantitative Methods for Business and Economics Glyn Burton 2002 Building on the strength of the first edition, *Quantitative Methods for Business and Economics* provides a simple introduction to the mathematical and statistical techniques needed in business. This book is accessible and easy to use, with the emphasis clearly on how to apply quantitative techniques to business situations. It includes numerous real world applications and many opportunities for student interaction. It is clearly focused on business, management and economics students taking a single module in *Quantitative Methods*.

Accounting Recordkeeping Practices In Smes In Somalia Ahmed Mohamoud ALI 2020-02-28

Simulation Modeling Using @Risk Wayne L. Winston 1996

Advanced Perspectives on Global Industry Transitions and Business Opportunities Saruchera, Fanny 2021-03-18 As more companies shift their operations between countries to take advantage of lower costs and greater profit, the global market continues to change rapidly, resulting in global hypercompetition that can be detrimental to a business. Firms must remain updated with the latest research as they navigate cultural differences, communication challenges, and inconsistent standards in order to thrive. *Advanced Perspectives on Global Industry Transitions and Business Opportunities* is an essential, comprehensive reference book that explores the current global business environment and the challenges that have arisen due to contemporary globalization and the resulting global hypercompetition. With a broad scope, the book covers the implications of industry transitions from small and medium-sized companies to multinational businesses and large enterprises and discusses opportunities for both born global and born-again global firms. Featuring topics that deal with innovation, digitalization, disruptive technologies, and international collaboration, this is an ideal source for executives, managers, entrepreneurs, global businesses and businesses looking to transition to the global market, academicians, researchers, and students.

Quantitative Methods for Decision Makers with MathXL Mik Wisniewski 2010 *Quantitative Methods for Decision Makers* covers everything you need to know for an introductory quantitative methods course. Relating techniques directly to real-life business decisions in private and public sector organisations, it is particularly well-suited to MBA students who will be applying quantitative methods in day-to-day managerial decision-making. This updated edition now comes packaged with an access card to online learning with MathXL.

Quantitative Methods Les Oakshott 2014-06-24 Offering a student-friendly introduction to quantitative methods, this text covers all of the need to know basics in a clear and engaging manner. *Quantitative Methods* is an ideal text for students of all levels coming to the subject for first time.

Quantitative Decision Making with Spreadsheet Applications Lawrence L. Lapin 2002 Written for students with a background in algebra, this text provides a complete and modern treatment of basic management science methodology. The authors survey the variety and power of management science tools, working to alleviate students' apprehension about the subject and to enable students to recognize on-the-job situations in which management science methodology can be successfully employed. Emphasizing modeling skills for students of varying mathematical backgrounds, the authors explain how to use Microsoft Excel spreadsheets to build skills as they work through problems. In general, problems are broken into several parts to make difficult concepts easy for students to learn. This book's modular structure affords instructors maximum flexibility. This text contains a special student version of Palisade Corporation's DecisionTools Suite, containing @Risk, PrecisionTree, BestFit, TopRank and RiskView. This software is expressly provided for student use and requires student authorization to unlock the software for its full one year license. Professional customers may use the software for 30 days at which point they must contact Palisade Corporation for a professional version should they wish to continue using the software.

Quantitative Methods for Business David Ray Anderson 2001

Statistical Thinking for Managers David K. Hildebrand 1998 Focusing on the analysis of data using modern statistical and spreadsheet software, Hildebrand and Ott emphasize making sense of data and discuss not only how a statistical method is applied, but why and why not. Throughout the book, the authors integrate computer use into the development of statistical concepts, emphasizing the value of looking at data to make sure the right questions are being asked. The real-life applications and examples throughout challenge students to think

like managers. The case that concludes every chapter asks students to deal with a relatively unstructured situation and to explain the statistical reasoning in nontechnical language. Modern statistical methods, including resampling and bootstrapping are included. In addition, the authors emphasize quality control and improvement throughout the book and include three full chapters on regression and correlation methods.

Cases in Managerial Data Analysis William Lee Carlson 1997 Intended as a supplement in introductory courses in business and economic statistics, this casebook offers real data-based problems from every functional area in business and economics.

Business Administration Reading Lists and Course Outlines: Quantitative methods and computer applications in business 1985

Foundations of TQM Joseph G. Van Matre 1995-05

Abuja Management Review 2004

Quantitative Methods for Business Decisions Lawrence L. Lapin 1994 Intended for the algebra-based introductory management science or quantitative methods survey course found in schools of business at four-year schools taken at the junior or senior level. (Statistics prerequisite.) This book features a strong emphasis on decision making.

The British National Bibliography Arthur James Wells 2009

Essential Quantitative Methods Les Oakshott 2020-01-25 This well-loved textbook covers all of the key quantitative methods needed to solve everyday business problems. Presented in a highly accessible and concise manner, Les Oakshott's clear and friendly writing style guides students from basic statistics through to advanced topics, such as hypothesis testing and time series, as well as operational research techniques such as linear programming and inventory management. Step-by-step instructions and accompanying activities will help students to practice and gain confidence in carrying out techniques. The book's coverage is fully grounded within the real world of business. Real-life case studies open every chapter and numerous examples throughout demonstrate why quantitative techniques are needed for a business to be successful. An ideal textbook for undergraduate students of business, management and finance, it is also suitable for MBA students and postgraduates. Accompanying online resources for this title can be found at [bloomsburyonlineresources.com/essential-quantitative-methods-7e](https://www.bloomsburyonlineresources.com/essential-quantitative-methods-7e). These resources are designed to support teaching and learning when using this textbook and are available at no extra cost.

Wiley CMAexcel Learning System Exam Review 2017: Part 2, Financial Decision Making (1-year access) IMA 2016-12-07

Quantitative Methods for Management Decisions William P. Cooke 1985

Tools for Decision Making David N. Ammons 2021-09-09 This book guides readers to the mastery of a wide array of practical analytic techniques useful to local governments. Written in an easy-to-read style with an emphasis on providing practical assistance to students, local government practitioners, and others interested in local government performance, this updated third edition features analytic methods selected for their relevance to everyday problems encountered in city and county governments. The authors outline a variety of practical techniques including the simplest that the fields of management, public administration, policy analysis, and industrial engineering have to offer. Each analytic technique is introduced in the context of a fictitious case presented over a few pages at the beginning of that technique's chapter. Contents include demand analysis, work distribution analysis, process flow-charting, inflation adjustments, annualizing capital costs, staffing analysis, identifying full costs of a program or service, present value analysis, life-cycle costing, lease/buy analysis, cost-effectiveness analysis, benchmarking analysis, and more. This updated third edition features a dramatic expansion of Excel-based applications, plus templates and exercises accompanying many of the chapters and available online. New chapters prepare readers to: • use statistical tests to identify significant differences in performance averages; • construct Pareto charts; • develop cause-and-effect diagrams; • prepare control charts; • detect possible discrimination in hiring and appointment practices; and • present analytic evidence more effectively. This book is an essential resource for students and instructors of public administration courses on analysis, methods, evaluation, productivity improvement, and service delivery. Online resources for this book, including Excel templates, are available at <https://toolsforddecisionmaking.sog.unc.edu>