

Quantity Surveying N4 Question Papers And Memos

Ancient Maya Commerce presents nearly two decades of multidisciplinary research at Chunchucmil, Yucatan, Mexico—a thriving Classic period Maya center organized around commercial exchange rather than agriculture. An urban center without a king and unable to sustain agrarian independence, Chunchucmil is a rare example of a Maya city in which economics, not political rituals, served as the engine of growth. Trade was the *raison d'être* of the city itself. Using a variety of evidence—archaeological, botanical, geomorphological, and soil-based—contributors show how the city was a major center for both short- and long-distance trade, integrating the Guatemalan highlands, the Gulf of Mexico, and the interior of the northern Maya lowlands. By placing Chunchucmil into the broader context of emerging research at other Maya cities, the book reorients the understanding of ancient Maya economies. The book is accompanied by a highly detailed digital map that reveals the dense population of the city and the hundreds of streets its inhabitants constructed to make the city navigable, shifting the knowledge of urbanism among the ancient Maya. Ancient Maya Commerce is a pioneering, thoroughly documented case study of a premodern market center and makes a strong case for the importance of early market economies in the Maya region. It will be a valuable addition to the literature for Mayanists, Mesoamericanists, economic anthropologists, and environmental archaeologists. Contributors: Anthony P. Andrews, Traci Ardren, Sheryl Luzzadder-Beach, Timothy Beach, Chelsea Blackmore, Tara Bond-Freeman, Bruce H. Dahlin, Patrice Farrell, David Hixson, Socorro Jimenez, Justin Lowry, Aline Magnoni, Eugenia Mansell, Daniel E. Mazeau, Travis Stanton, Ryan V. Sweetwood, Richard E. Terry

Focusing on the practical aspects of survey sampling, this introduction is intended for a one-term service course in survey sampling for students in the social sciences, business, and natural resources management (college algebra prerequisite). Appealing to the student with a limited background in math.

This document discusses the physical processes of the hydrologic cycle that are important to highway engineers. These processes include the approaches, methods and assumptions applied in design and analysis of highway drainage structures. Hydrologic methods of primary interest are frequency analysis for analyzing rainfall and ungaged data; empirical methods for peak discharge estimation; and hydrograph analysis and synthesis. The document describes the concept and several approaches for determining time of concentration. The peak discharge methods discussed include log Pearson type III, regression equations, the SCS graphical method (curve number method), and rational method. The technical discussion of each peak flow approach also includes urban development applications. The document presents common storage and channel routing techniques related to highway drainage hydrologic analyses. The document describes methods used in the planning and design of stormwater management facilities. Special topics in hydrology include discussions of arid lands hydrology, wetlands hydrology, snowmelt hydrology, and hydrologic modeling, including geographic information system approaches and applications. This edition includes new sections on wetlands hydrology and snowmelt hydrology, an expanded section on arid lands hydrology, corrections of minor errors, and inclusion of dual units.

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with their types and nature are described along with measurement of horizontal distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying. **KEY FEATURES :** Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering Services exams.

Systems analysis in forestry has continued to advance in sophistication and diversity of application over the last few decades. The papers in this volume were presented at the eighth symposium in the foremost conference series worldwide in this subject area. Techniques presented include optimization and simulation modelling, decision support systems, alternative planning techniques, and spatial analysis. Over 30 papers and extended abstracts are grouped into the topical areas of (1) fire and fuels; (2) networks and transportation; (3) forest and landscape planning; (4) ecological modeling, biodiversity, and wildlife; and (5) forest resource applications. This collection will be of interest to forest planners and researchers who work in quantitative methods in forestry.

This book provides a comprehensive introduction to actuarial mathematics, covering both deterministic and stochastic models of life contingencies, as well as more advanced topics such as risk theory, credibility theory and multi-state models. This new edition includes additional material on credibility theory, continuous time multi-state models, more complex types of contingent insurances, flexible contracts such as universal life, the risk measures VaR and TVaR. **Key Features:** Covers much of the syllabus material on the modeling examinations of the Society of Actuaries, Canadian Institute of Actuaries and the Casualty Actuarial Society. (SOA-CIA exams MLC and C, CSA exams 3L and 4.) Extensively revised and updated with new material. Orders the topics specifically to facilitate learning. Provides a streamlined approach to actuarial notation. Employs modern computational methods. Contains a variety of exercises, both computational and theoretical, together with answers, enabling use for self-study. An ideal text for students planning

for a professional career as actuaries, providing a solid preparation for the modeling examinations of the major North American actuarial associations. Furthermore, this book is highly suitable reference for those wanting a sound introduction to the subject, and for those working in insurance, annuities and pensions.

Modern statistics consists of methods which help in drawing inferences about the population under consideration. These populations may actually exist, or could be generated by repeated experimentation. The medium of drawing inferences about the population is the sample, which is a subset of measurements selected from the population. Each measurement in the sample is used for making inferences about the population. The populations and also the methods of sample selection differ from one field of science to the other. Social scientists use surveys to collect the sample information, whereas the physical scientists employ the method of experimentation for obtaining this information. This is because in social sciences the factors that cause variation in the measurements on the study variable for the population units can not be controlled, whereas in physical sciences these factors can be controlled, at least to some extent, through proper experimental design. Several excellent books on sampling theory are available in the market. These books discuss the theory of sample surveys in great depth and detail, and are suited to the postgraduate students majoring in statistics. Research workers in the field of sampling methodology can also make use of these books. However, not many suitable books are available, which can be used by the students and researchers in the fields of economics, social sciences, extension education, agriculture, medical sciences, business management, etc. These students and workers usually conduct sample surveys during their research projects.

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution, CMES, which is the unique national-level academic society of Industrial Engineering. The conference is held annually as the major event in this area. Being the largest and the most authoritative international academic conference held in China, it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering and Management area to exchange their research results. Many experts in various fields from China and foreign countries gather together in the conference to review, exchange, summarize and promote their achievements in Industrial Engineering and Engineering Management fields. Some experts pay special attention to the current situation of the related techniques application in China as well as their future prospect, such as Industry 4.0, Green Product Design, Quality Control and Management, Supply Chain and logistics Management to cater for the purpose of low-carbon, energy-saving and emission-reduction and so on. They also come up with their assumption and outlook about the related techniques' development. The proceedings will offer theatrical methods and technique application cases for experts from college and university, research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique's application in China. As all the papers are feathered by higher level of academic and application value, they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style.

The third edition of the Quantity Surveyor's Pocket Book has been updated in line with NRM1, NRM2 and NRM3, and remains a must-have guide for students and qualified practitioners. Its focused coverage of the data, techniques and skills essential to the quantity surveying role makes it an invaluable companion for everything from initial cost advice to the final account stage. Key features and updates included in this new edition: an up-to-date analysis of NRM1, 2 and 3; measurement and estimating examples in NRM2 format; changes in procurement practice; changes in professional development, guidance notes and schemes of work; the increased use of NEC3 form of contract; the impact of BIM. This text includes recommended formats for cost plans, developer's budgets, financial reports, financial statements and final accounts. This is the ideal concise reference for quantity surveyors, project and commercial managers, and students of any of the above.

"There was no such thing as the Scientific Revolution, and this is a book about it." With this provocative and apparently paradoxical claim, Steven Shapin begins his bold, vibrant exploration of the origins of the modern scientific worldview, now updated with a new bibliographic essay featuring the latest scholarship. "An excellent book."—Anthony Gottlieb, *New York Times Book Review* "Timely and highly readable. . . . A book which every scientist curious about our predecessors should read."—Trevor Pinch, *New Scientist* "Shapin's account is informed, nuanced, and articulated with clarity. . . . This is not to attack or devalue science but to reveal its richness as the human endeavor that it most surely is. . . . Shapin's book is an impressive achievement."—David C. Lindberg, *Science* "It's hard to believe that there could be a more accessible, informed or concise account. . . . The Scientific Revolution should be a set text in all the disciplines. And in all the indisdisciplines, too."—Adam Phillips, *London Review of Books*

The theory of probability is a powerful tool that helps electrical and computer engineers to explain, model, analyze, and design the technology they develop. The text begins at the advanced undergraduate level, assuming only a modest knowledge of probability, and progresses through more complex topics mastered at graduate level. The first five chapters cover the basics of probability and both discrete and continuous random variables. The later chapters have a more specialized coverage, including random vectors, Gaussian random vectors, random processes, Markov Chains, and convergence. Describing tools and results that are used extensively in the field, this is more than a textbook; it is also a reference for researchers working in communications, signal processing, and computer network traffic analysis. With over 300 worked examples, some 800 homework problems, and sections for exam preparation, this is an essential companion for advanced undergraduate and graduate students. Further resources for this title, including solutions (for Instructors only), are available online at www.cambridge.org/9780521864701.

This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Willis's *Elements of Quantity Surveying* has become a standard text in the teaching of building measurement – a core part of the degree curriculum for quantity surveyors. The book will be fully updated to follow the guidance given by RICS NRM 1 & 2. As in previous editions the focus remains a logical approach the detailed measurement of building elements and copious use of examples to guide the student. The text has been fully revised in line with the NRM guidance and includes many new and revised examples illustrating the use of NRM. The hallmarks of previous editions – clarity and practicality – are maintained, while ensuring the book is fully up to date, providing the student of quantity surveying with a first class introduction to the measurement of building elements.

Soil diversity (pedodiversity) is part of our natural and cultural heritage. The preservation of the pedosphere is essential for the protection of the biosphere and the Earth's systems, the regulation of climate, and for world food security. In this book, reputed international experts discuss the state of the art of pedodiversity analysis—analyzing the

relationships among biodiversity, pedodiversity, landform diversity, lithodiversity, and land use diversity. The first of its kind, the book is intended to be a combined handbook, historical account of pedodiversity research, and essay on its future challenges.

One of the most extraordinary books ever written about chess and chessplayers, this authoritative study goes well beyond a lucid explanation of how today's chessmasters and tournament players are rated. Twenty years' research and practice produce a wealth of thought-provoking and hitherto unpublished material on the nature and development of high-level talent: Just what constitutes an "exceptional performance" at the chessboard? Can you really profit from chess lessons? What is the lifetime pattern of Grandmaster development? Where are the masters born? Does your child have master potential? The step-by-step rating system exposition should enable any reader to become an expert on it. For some it may suggest fresh approaches to performance measurement and handicapping in bowling, bridge, golf and elsewhere. 43 charts, diagrams and maps supplement the text. How and why are chessmasters statistically remarkable? How much will your rating rise if you work with the devotion of a Steinitz? At what age should study begin? What toll does age take, and when does it begin? Development of the performance data, covering hundreds of years and thousands of players, has revealed a fresh and exciting version of chess history. One of the many tables identifies 500 all-time chess great personal data and top lifetime performance ratings. Just what does government assistance do for chess? What is the Soviet secret? What can we learn from the Icelanders? Why did the small city of Plovdiv produce three Grandmasters in only ten years? Who are the untitled dead? Did Euwe take the championship from Alekhine on a fluke? How would Fischer fare against Morphy in a ten-wins match? It was inevitable that this fascinating story be written, ' asserts FIDE President Max Euwe, who introduces the book and recognizes the major part played by ratings in today's burgeoning international activity. Although this is the definitive ratings work, with statistics alone sufficient to place it in every reference library, it was written by a gentle scientist for pleasurable reading -for the enjoyment of the truths, the questions, and the opportunities it reveals.

Approximately 500,000 bridges in the National Bridge Inventory (NBI) are built over streams. A large proportion of these bridges span alluvial streams that are continually adjusting their beds and banks. Many, especially those on more active streams, will experience problems with aggradation, degradation, bank erosion, and lateral channel shift during their useful life. The purpose of this document is to provide guidelines for identifying stream instability problems at highway stream crossings. Techniques for stream channel classification and reconnaissance, as well as rapid assessment methods for channel instability are summarized. Qualitative and quantitative geomorphic and engineering techniques useful in stream channel stability analysis are presented. This publication is an update of the third edition published in 2001. The HEC-20 manual covers geomorphic and hydraulic factors that affect stream stability and provides a step-by-step analysis procedure for evaluation of stream stability problems. Stream channel classification, stream reconnaissance techniques, and rapid assessment methods for channel stability are covered in detail. Quantitative techniques for channel stability analysis, including degradation analysis, are provided, and channel restoration concepts are introduced. Significant new material in this edition includes chapters on sediment transport concepts and channel stability in gravel bed streams, as well as expanded coverage of channel restoration concepts.

Written by experts, Digital Terrain Modeling: Principles and Methodology provides comprehensive coverage of recent developments in the field. The topics include terrain analysis, sampling strategy, acquisition methodology, surface modeling principles, triangulation algorithms, interpolation techniques, on-line and off-line quality control in data acquisition, DTM accuracy assessment and mathematical models for DTM accuracy prediction, multi-scale representation, data management, contouring, visual analysis (or visualization), the derivation of various types of terrain parameters, and future development and applications.

This book has been written as a reference and text for engineers, researchers, teachers and students who have an interest in the planning and control of the environment in underground openings. While directed primarily to underground mining operations, the design procedures are also applicable to other complex developments of subsurface space such as nuclear waste repositories, commercial accommodation or vehicular networks. The book will, therefore, be useful for mining, civil, mechanical, and heating, ventilating and air-conditioning engineers involved in such enterprises. The chapters on airborne pollutants highlight means of measurement and control as well as physiological reaction. These topics will be of particular interest to industrial hygienists and students of industrial medicine. One of the first technical applications of digital computers in the world's mining industries was for ventilation network analysis. This occurred during the early 1960s. However, it was not until low cost but powerful personal computers proliferated in engineering offices during the 1980s that the full impact of the computer revolution was realized in the day-to-day work of most mine ventilation engineers. This book reflects the changes in approach and design procedures that have been brought about by that revolution. While the book is organized into six parts, it encompasses three broad areas.

""Presents the latest in graph domination by leading researchers from around the world-furnishing known results, open research problems, and proof techniques. Maintains standardized terminology and notation throughout for greater accessibility. Covers recent developments in domination in graphs and digraphs, dominating functions, combinatorial problems on chessboards, and more.

Building Quantities Explained Macmillan International Higher Education

This book presents state-of-the-practice information on the design and installation of cement-grouted ground anchors and anchored systems for highway applications. The anchored systems discussed include flexible anchored walls, slopes supported using ground anchors, landslide stabilization systems, and structures that incorporate tiedown anchors. This book draws extensively in describing issues such

as subsurface investigation and laboratory testing, basic anchoring principles, ground anchor load testing, and inspection of construction materials and methods used for anchored systems. This book provides detailed information on design analyses for ground anchored systems. Topics discussed include selection of design earth pressures, ground anchor design, design of corrosion protection system for ground anchors, design of wall components to resist lateral and vertical loads, evaluation of overall anchored system stability, and seismic design of anchored systems. Also included in this book are two detailed design examples and technical specifications for ground anchors and for anchored walls.

A long established text that aims to meet the needs of students studying building measurement in the early years of quantity surveying and building degree courses. It contains a careful selection of 28 worked examples embracing all the principal building elements and including alternative constructional methods to illustrate a range of approaches.

Survey Sampling Theory and Applications offers a comprehensive overview of survey sampling, including the basics of sampling theory and practice, as well as research-based topics and examples of emerging trends. The text is useful for basic and advanced survey sampling courses. Many other books available for graduate students do not contain material on recent developments in the area of survey sampling. The book covers a wide spectrum of topics on the subject, including repetitive sampling over two occasions with varying probabilities, ranked set sampling, Fays method for balanced repeated replications, mirror-match bootstrap, and controlled sampling procedures. Many topics discussed here are not available in other text books. In each section, theories are illustrated with numerical examples. At the end of each chapter theoretical as well as numerical exercises are given which can help graduate students. Covers a wide spectrum of topics on survey sampling and statistics Serves as an ideal text for graduate students and researchers in survey sampling theory and applications Contains material on recent developments in survey sampling not covered in other books Illustrates theories using numerical examples and exercises

CMH Publication 70-30. Edited by Frank N. Schubert and Theresa L. Kraus. Discusses the United States Army's role in the Persian Gulf War from August 1990 to February 1991. Shows the various strands that came together to produce the army of the 1990s and how that army in turn performed under fire and in the glare of world attention. Retains a sense of immediacy in its approach. Contains maps which were carefully researched and compiled as original documents in their own right. Includes an index.

The catchment area of the Mekong River and its tributaries extends from China, through Burma/Myanmar, Thailand, Laos, Cambodia and to Vietnam. The water resources of the Mekong region - from the Irrawaddy and Nu-Salween in the west, across the Chao Phraya to the Lancang-Mekong and Red River in the east- are increasingly contested. Governments, companies, and banks are driving new investments in roads, dams, diversions, irrigation schemes, navigation facilities, power plants and other emblems of conventional 'development'. Their plans and interventions should provide some benefits, but also pose multiple burdens and risks to millions of people dependent on wetlands, floodplains and aquatic resources, in particular, the wild capture fisheries of rivers and lakes. This book examines how large-scale projects are being proposed, justified, and built. How are such projects contested and how do specific governance regimes influence decision making? The book also highlights the emergence of new actors, rights and trade-off debates, and the social and environmental consequences of 'water resources development'. This book shows how diverse, and often antagonistic, ideologies and interests are contesting for legitimacy. It argues that the distribution of decision-making, political, and discursive power influences how the waterscapes of the region will ultimately look and how benefits, costs and risks will be distributed. These issues are crucial for the transformation of waterscapes and the prospects for democratizing water governance in the Mekong region. The book is part of the action-research of the M-POWER (Mekong Program on Water, Environment and Resilience) knowledge network. Published with IFAD, CGIAR Challenge Program on Water & Food, M-POWER, Project ECHSEL-EAU and HEINRICH BOLL STIFTUNG

A stand-alone working document, Stormwater Effects Handbook: A Toolbox for Watershed Managers, Scientists, and Engineers assists scientists and regulators in determining when stormwater runoff causes adverse effects in receiving waters. This complicated task requires an integrated assessment approach that focuses on sampling before, during, and after storms. The Handbook supplies assessment strategies, sample testing and collection methods, and includes illustrative figures and tables. The authors introduce an innovative design that can be tailored to address a wide range of environmental concerns, such as: ecological and human health risk assessments, water quality or biological criteria exceedences, use impairment, source identification, trend analysis, determination of best management practices, stormwater quality monitoring for NPDES Phase I and II permits and applications, and total maximum daily load assessments. They provide case studies to illustrate the effectiveness of this approach and the data that can be compiled. Containing reviews of emerging technologies that hold promise for more effective receiving water evaluations, this book gives you detailed information on selecting methods and carrying out comprehensive evaluations. It includes guidance for the experimental design measurements, as well as standard and advanced statistical methods for data evaluations. Despite the complexity of stormwater management, successful and accurate assessments of their impact are possible by following the integrated approaches described in Stormwater Effects Handbook: A Toolbox for Watershed Managers, Scientists, and Engineers.

With its cogent overview of the essentials of parallel computation as well as lists of P-complete and open problems, extensive remarks corresponding to each problem, and extensive references, this book is the ideal introduction to parallel computing.

To learn and understand mathematics, students must engage in the process of doing mathematics. Emphasizing active learning, Abstract Algebra: An Inquiry-Based Approach not only teaches abstract algebra but also provides a deeper understanding of what mathematics is, how it is done, and how mathematicians think. The book can be used in both rings-first and groups-first abstract algebra courses. Numerous activities, examples, and exercises illustrate the definitions, theorems, and concepts. Through this engaging learning process, students discover new ideas and develop the necessary communication skills and rigor to understand and apply concepts from abstract algebra. In addition to the activities and exercises, each chapter includes a short discussion of the connections among topics in ring theory and group theory. These discussions help students see the relationships between the two main types of algebraic objects studied throughout the text. Encouraging students to do mathematics and be more than passive learners, this text shows students that the way mathematics is developed is often different than how it is presented; that definitions, theorems, and proofs do not simply appear fully formed in the minds of mathematicians; that mathematical ideas are highly interconnected; and that even in a field like abstract algebra, there is a considerable amount of intuition to be found.

Health Promotion Programs introduces the theory of health promotion and presents an overview of current best practices from a wide variety of settings that include schools, health care organizations, workplace, and community. The 43 contributors to Health Promotion Programs focus on students and professionals interested in planning, implementing, and evaluating programs that promote health equity. In addition to the focus on best practices, each chapter contains information on: Identifying health promotion programs Eliminating health disparities Defining and applying health promotion theories and models Assessing the needs of program participants Creating and supporting evidence-based programs Implementing health promotion

programs: Tools, program staff, and budgets Advocacy Communicating health information effectively Developing and increasing program funding Evaluating, improving, and sustaining health promotion programs Health promotion challenges and opportunities Health promotion resources and career links "The authors have clearly connected the dots among planning, theory, evaluation, health disparity, and advocacy, and have created a user-friendly toolbox for health promotion empowerment."—Ronald L. Braithwaite, PhD, professor, Morehouse School of Medicine, Departments of Community Health and Preventive Medicine, Family Medicine, and Psychiatry "The most comprehensive program planning text to date, this book examines all facets of planning and implementation across four key work environments where health educators function."—Mal Goldsmith, PhD, CHES, professor and coordinator of Health Education, Southern Illinois University, Edwardsville "Health Promotion Programs . . . explores the thinking of some of our field's leaders and confirms its well-deserved place in the field and in our personal collections."—Susan M. Radius, PhD, CHES, professor and program director, Health Science Department, Towson University

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

This fascinating new book examines diversity in moral judgements, drawing on recent work in social, personality, and evolutionary psychology, reviewing the factors that influence the moral judgments people make. Why do reasonable people so often disagree when drawing distinctions between what is morally right and wrong? Even when individuals agree in their moral pronouncements, they may employ different standards, different comparative processes, or entirely disparate criteria in their judgments. Examining the sources of this variety, the author expertly explores morality using ethics position theory, alongside other theoretical perspectives in moral psychology, and shows how it can relate to contemporary social issues from abortion to premarital sex to human rights. Also featuring a chapter on applied contexts, using the theory of ethics positions to gain insights into the moral choices and actions of individuals, groups, and organizations in educational, research, political, medical, and business settings, the book offers answers that apply across individuals, communities, and cultures. Investigating the relationship between people's personal moral philosophies and their ethical thoughts, emotions, and actions, this is fascinating reading for students and academics from psychology and philosophy and anyone interested in morality and ethics.

In this fourth edition of *New Aspects of Quantity Surveying Practice*, renowned quantity surveying author Duncan Cartlidge reviews the history of the quantity surveyor, examines and reflects on the state of current practice with a concentration on new and innovative practice, and attempts to predict the future direction of quantity surveying practice in the UK and worldwide. The book champions the adaptability and flexibility of the quantity surveyor, whilst covering the hot topics which have emerged since the previous edition's publication, including: the RICS 'Futures' publication; Building Information Modelling (BIM); mergers and acquisitions; a more informed and critical evaluation of the NRM; greater discussion of ethics to reflect on the renewed industry interest; and a new chapter on Dispute Resolution. As these issues create waves throughout the industry whilst it continues its global growth in emerging markets, such reflections on QS practice are now more important than ever. The book is essential reading for all Quantity Surveying students, teachers and professionals. It is particularly suited to undergraduate professional skills courses and non-cognate postgraduate students looking for an up to date understanding of the industry and the role.

This textbook provides a unified and concise exploration of undergraduate mathematics by approaching the subject through its history. Readers will discover the rich tapestry of ideas behind familiar topics from the undergraduate curriculum, such as calculus, algebra, topology, and more. Featuring historical episodes ranging from the Ancient Greeks to Fermat and Descartes, this volume offers a glimpse into the broader context in which these ideas developed, revealing unexpected connections that make this ideal for a senior capstone course. The presentation of previous versions has been refined by omitting the less mainstream topics and inserting new connecting material, allowing instructors to cover the book in a one-semester course. This condensed edition prioritizes succinctness and cohesiveness, and there is a greater emphasis on visual clarity, featuring full color images and high quality 3D models. As in previous editions, a wide array of mathematical topics are covered, from geometry to computation; however, biographical sketches have been omitted. *Mathematics and Its History: A Concise Edition* is an essential resource for courses or reading programs on the history of mathematics. Knowledge of basic calculus, algebra, geometry, topology, and set theory is assumed. From reviews of previous editions: "Mathematics and Its History is a joy to read. The writing is clear, concise and inviting. The style is very different from a traditional text. I found myself picking it up to read at the expense of my usual late evening thriller or detective novel.... The author has done a wonderful job of tying together the dominant themes of undergraduate mathematics." Richard J. Wilders, MAA, on the Third Edition "The book...is presented in a lively style without unnecessary detail. It is very stimulating and will be appreciated not only by students. Much attention is paid to problems and to the development of mathematics before the end of the nineteenth century.... This book brings to the non-specialist interested in mathematics many interesting results. It can

be recommended for seminars and will be enjoyed by the broad mathematical community." European Mathematical Society, on the Second Edition
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