

## Nerb Study Guide

\*\*\*Includes Practice Test Questions\*\*\* Secrets of the Radiation Health and Safety Exam helps you ace the Radiation Health and Safety Exam, without weeks and months of endless studying. Our comprehensive Secrets of the Radiation Health and Safety Exam study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined. Secrets of the Radiation Health and Safety Exam includes: The 5 Secret Keys to DANB Exam Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive Radiation Health and Safety review including: Radiographic Findings, Bitewing Radiographs, Periapical Radiographs, Panoramic Radiographs, Bisect-the-Angle Technique, Sizes of Film, Anatomical Landmarks, Radiolucent, Intensifying Screens, Lateral Skull Projection, X-ray Measurement, Personnel Monitoring, Shadow Casting, Automatic Processing, Inverse Square Law, Roentgen, Tissue Sensitivity, ALARA, Dosimeter, Composition of Film, Fixing, Emulsion Defects, Mounting Radiographs, and much more...

"The Dental Board Busters ADEX/NERB is currently the only study guide available that comprehensively, but specifically covers the relevant material to pass the computerized diagnostic exam (CSE). Dental Board Busters is written by dental hygienists for dental hygienists."--From publisher description.

Featuring a wide range of international case studies, Ethics, Technology, and Engineering presents a unique and systematic approach for engineering students to deal with the ethical issues that are increasingly inherent in engineering practice. Utilizes a systematic approach to ethical case analysis -- the ethical cycle -- which features a wide range of real-life international case studies including the Challenger Space Shuttle, the Herald of Free Enterprise and biofuels. Covers a broad range of topics, including ethics in design, risks, responsibility, sustainability, and emerging technologies Can be used in conjunction with the online ethics tool Agora (<http://www.ethicsandtechnology.com>) Provides engineering students with a clear introduction to the main ethical theories Includes an extensive glossary with key terms

Guarantee you'll pass the ADEX/NERB with the Dental Board Busters Study Guides - The Dental Board Busters ADEX/NERB is currently the only study guide available that comprehensively, but specifically covers the relevant material to pass the dental board's computerized diagnostic exam (DSE). There are five parts to the exam, which our study guides will cover in their entirety: the Restorative, the Periodontal, the Prosthodontic, the Endodontic and the Diagnostic Skills Exam (DSE) Examinations. With 75% needed to pass, the Dental Board Busters textbook will give you the edge you need to far exceed minimum passing rates!

This book presents an overview of the economics and politics implemented in the European Union and especially the Eurozone during the crisis of 2008-2012. Although it focuses on these four years, the analysis starts from the establishment of the European Union and covers the period up to the outbreak of the Cypriot banking crisis in mid-2013. The long-term creation of structural changes in European economics and politics is associated with a growth lag within the global economic environment dynamics. The economic and political consequences of the crisis and the development of new institutions will shape the future growth dynamics towards a Fragmented European Federation.

Manhattan Prep's 500 GRE Math Flash Cards provides practical exposure to the basic math concepts tested on the GRE. Designed to be user-friendly for all students, these cards include easy-to-follow explanations of math concepts that promise to enhance comprehension and build fundamental skills. Try using these cards with Manhattan Prep's 2-volume GRE vocabulary flash cards (500 Essential Words, ISBN: 9781935707899; 500 Advanced Words, ISBN: 9781935707882) for a comprehensive review of the math and verbal tested on the GRE!

Includes section "Book reviews."

Social sequence analysis includes a diverse and rapidly growing body of methods that social scientists have developed to help study complex ordered social processes, including chains of transitions, trajectories and other ordered phenomena. Social sequence analysis is not limited by content or time scale and can be used in many different fields, including sociology, communication, information science and psychology. Social Sequence Analysis aims to bring together both foundational and recent theoretical and methodological work on social sequences from the last thirty years. A unique reference book for a new generation of social scientists, this book will aid demographers who study life-course trajectories and family histories, sociologists who study career paths or work/family schedules, communication scholars and micro-sociologists who study conversation, interaction structures and small-group dynamics, as well as social epidemiologists.

Many designs that appear in today's society will circulate and encounter audiences of many different cultures and languages. With communication comes responsibility; are designers aware of the meaning and impact of their work? An image or symbol that is acceptable in one culture can be offensive or even harmful in the next. A typeface or colour in a design might appear to be neutral, but its meaning is always culturally dependent. If designers learn to be aware of global cultural contexts, we can avoid stereotyping and help improve mutual understanding between people. Politics of Design is a collection of visual examples from around the world. Using ideas from anthropology and sociology, it creates surprising and educational insight in contemporary visual communication. The examples relate to the daily practice of both online and offline visual communication: typography, images, colour, symbols, and information. Politics of Design shows the importance of visual literacy when communicating beyond borders and cultures. It explores the cultural meaning behind the symbols, maps, photography, typography, and colours that are used every day. It is a practical guide for design and communication professionals and students to create more effective and responsible visual communication.

NBDE Part II-style questions written by dental students who just took the exam Put the proven First Aid formula to work for you! Part of the time-tested First Aid review series, First Aid Q&A for the NBDE Part II delivers 600+ board-style review questions written by dental students who just took the boards. You will find detailed explanations of correct and incorrect answer options in an easy-to-read format. Features Table of contents mirrors the NBDE Part II content guidelines and the companion book, First Aid for the NBDE Part II Written for students by students who passed, and reviewed by top faculty 600+ questions focus on must-know material Answer explanations are provided in an easy-to-read manner: answer letter options are always bolded, correct answers are discussed first, and discussions of each distracter explain why incorrect answers are wrong The content you need to pass the NBDE Part II: Chapter 1. Pharmacology; Chapter 2. Operative Dentistry and Prosthodontics; Chapter 3. Oral and Maxillofacial Surgery and Pain Control; Chapter 4. Orthodontics; Chapter 5. Pediatric Dentistry; Chapter 6. Endodontics; Chapter 7. Periodontics; Chapter 8. Radiology; Chapter 9. Pathology; Chapter 10. Patient Management, Public Health, Ethics

and Biostatistics

"The challenges facing agriculture are plenty. Along with the world's growing population and diminishing amounts of water and arable land, the gradual increase in severe weather presents new challenges and imperatives for producing new, more resilient crops to feed a more crowded planet in the twenty-first century. Innovation has historically helped agriculture keep pace with earth's social, population, and ecological changes. In the last 50 years, mechanical, biological, and chemical innovations have more than doubled agricultural output while barely changing input quantities. The ample investment behind these innovations was available because of a high rate of return: a 2007 paper found that the median ROI in agriculture was 45 percent between 1965 and 2005. This landscape has changed. Today many of the world's wealthier countries have scaled back their share of GDP devoted to agricultural R&D amid evidence of diminishing returns. Universities, which have historically been a major source of agricultural innovation, increasingly depend on funding from industry rather than government to fund their research. As Upton Sinclair wrote of the effects industry influences, "It is difficult to get a man to understand something when his salary depends upon his not understanding it." In this volume of the NBER Conference Report series, editor Petra Moser offers an empirical, applied-economic framework to the different elements of agricultural R&D, particularly as they relate to the shift from public to private funding. Individual chapters examine the sources of agricultural knowledge and investigate challenges for measuring the returns to the adoption of new agricultural technologies, examine knowledge spillovers from universities to agricultural innovation, and explore interactions between university engagement and scientific productivity. Additional analysis of agricultural venture capital point to it as an emerging and future source of resource in this essential domain"--

The order that material, for both facts and skills, is presented or explored by a learner can strongly influence what is learned, how fast performance increases, and sometimes, even that the material is learned at all. This text argues that these effects are more pervasive and important than they have been treated.

The updated edition of the essential guide to environmental psychology Thoroughly revised and updated, the second edition, *Environmental Psychology: An Introduction* offers an overview of the interplay between humans and their environments. The text examines the influence of the environment on human experiences, behaviour and well-being and explores the factors influencing environmental behaviour, and ways to encourage pro-environmental behaviour. The revised edition is a state-of-the art review of relevant theories and research on each of these topics. With contributions from an international panel of noted experts, the text addresses a wealth of topics including the main research methods in environmental psychology; effects of environmental stress; emotional impacts and meanings of natural environment experience; aesthetic appraisals of architecture; how to measure environmental behaviour; cognitive, emotional and social factors explaining environmental behaviour; effects and acceptability of strategies to promote pro-environmental factors; and much more. This important book: Discusses the environmental factors that threaten and promote human wellbeing Explores a wide range of factors influencing actions that affect environmental conditions Discusses the effects and acceptability of approaches that aim to encourage pro-environmental behavior Presents research results conducted in different regions in the world Contains contributions from noted experts Written for scholars and practitioners in the field, the revised edition of *Environmental Psychology* offers a comprehensive review of the most recent research available in environmental psychology.

ADEX/NERB for Dentists The Ultimate Study Guide for Conquering the Computer Based Diagnostic Skills Examination

Ten Steps to Complex Learning presents a path from an educational problem to a solution in a way that students, practitioners, and researchers can understand and easily use. Students in the field of instructional design can use this book to broaden their knowledge of the design of training programs for complex learning. Practitioners can use this book as a reference guide to support their design of courses, curricula, or environments for complex learning. Now fully revised to incorporate the most current research in the field, this third edition of *Ten Steps to Complex Learning* includes many references to recent research as well as two new chapters. One new chapter deals with the training of 21st-century skills in educational programs based on the Ten Steps. The other deals with the design of assessment programs that are fully aligned with the Ten Steps. In the closing chapter, new directions for the further development of the Ten Steps are discussed. This volume contains studies of one particular category of risky situations, namely, those involving highly negative consequences with low probabilities. Situations of this type involve both natural and man-made disasters (e.g. floods, technological hazards, economic crises, epidemics, etc.). Such risks are characterized by two features: (1) they occur relatively rarely (the probability of their occurrence is very low) and (2) they have extremely negative consequences (they are catastrophic). Such events generally cannot be prevented, but one can both try to anticipate them and undertake actions aimed at ameliorating their negative consequences. Consequently, the first part of the book is devoted to risk perception issues. It includes studies devoted to the following questions which arise when people have to deal with probabilities, and small probabilities in particular: How can probabilistic information be communicated effectively? What is the impact of emotions on perceptions of, and reactions to, probabilistic information? Other relevant issues are also discussed. The second part of the book is devoted to protection and insurance against risk. Thus, it includes studies answering the following questions: What determines a person's willingness to take preventive actions in areas susceptible to severe flooding? How do people form their own risk estimates? Research presented in the book extends our knowledge of human behavior in situations characterized by large risks and low probabilities, leading to better comprehension of the functioning of cognitive and affective processes in perception and decision making in situations where uncertainty and risk are accompanied by highly negative consequences.

This volume links theoretical and instructional approaches on how reading is motivated and assessed, and examines the interrelationship between reading motivation and achievement among boys and girls in culturally and geographically different settings. Much of the research on children's reading has focused on cognitive processes; however, reading is an activity that also requires interest and motivation. These attitudes are generally defined as readers' affect toward reading and their consequence is that children with more positive attitudes are more motivated to read. Taking into account the variability that exists within the notion of gender and age, this volume aims to examine and scrutinize previous research on the topic, as well as test theories on how the different dimensions of reading motivation vary with gender, in relation to cultural issues, motivational constructs, such as engagement and classroom climate, the role of emotions, interests and attitudes towards reading, among others. The book will be of interest to researchers, educators, graduate students, and other professionals working in the area of literacy, reading motivation, reading achievement and gender differences.

With the increasing pressure to excel at parenting, work, and personal relationships, it's easy to feel stressed and dissatisfied. This targeted Positive Discipline guide gives parents the tools to parent effectively without sacrificing their well-being or giving up on their life goals. Instead of creating unachievable expectations, you will instead learn to play to your strengths at work and at home. You'll integrate your seemingly disparate areas of life and use Positive Discipline to make the most out of your time, energy and relationships. By helping you get to the bottom of the underlying causes of misbehavior, busy parents will also be able to avoid pampering and keep permissive and punitive parenting at bay. Instead of feeling fragmented and guilty, you'll have the presence of mind to explore what works best for you and your family. Attitude is key – we'll help you feel confident in your parenting abilities and your professional choices, making your children more likely to adopt an attitude of self-reliance and cooperation. Armed with communication strategies and tips for self-reflection, moms (and dads!) won't have to feel guilty about leaving their child with a sitter during the day, or leaving work early to go to a soccer game.

Graphic Design Theory is organized in three sections: "Creating the Field" traces the evolution of graphic design over the course of the early 1900s, including influential avant-garde ideas of futurism, constructivism, and the Bauhaus; "Building on Success" covers the mid- to late

twentieth century and considers the International Style, modernism, and postmodernism; and "Mapping the Future" opens at the end of the last century and includes current discussions on legibility, social responsibility, and new media. Striking color images illustrate each of the movements discussed and demonstrate the ongoing relationship between theory and practice. A brief commentary prefaces each text, providing a cultural and historical framework through which the work can be evaluated. Authors include such influential designers as Herbert Bayer, L'szlo Moholy-Nagy, Karl Gerstner, Katherine McCoy, Michael Rock, Lev Manovich, Ellen Lupton, and Lorraine Wild. Additional features include a timeline, glossary, and bibliography for further reading. A must-have survey for graduate and undergraduate courses in design history, theory, and contemporary issues, *Graphic Design Theory* invites designers and interested readers of all levels to plunge into the world of design discourse.

This book is a printed edition of the Special Issue "Teaching Methods in Science Subjects Promoting Sustainability" that was published in *Education Sciences*

Are you sure you're ready for the NBDE? You will be with this ultimate review resource! Providing the most up-to-date information on each of the basic sciences addressed in Part I of the National Board Dental Examination (NBDE) — including Anatomic Sciences; Biochemistry and Physiology; Microbiology and Pathology; and Dental Anatomy and Occlusion — this complete exam review features an easy-to-use outline format that mirrors the topic progression of the NBDE. Plus, it's loaded with informative examples and illustrations, endless practice questions reflecting the latest question types, and customizable testing modes to ensure you are fully prepared to tackle every aspect of Part I of the NBDE! Easy-to-use outline format organizes essential data and key points in a clean, streamlined fashion. Exam-based progression of topics presents sections and topics in the same order as they appear on the actual exam. Practice exams with approximately 450 questions appear at the end of the book along with the correct answers and rationales. Approximately 200 diagrams and photographs provide visual evidence to support key topics, including anatomic structures, physiology, and microbiology. Tables and text boxes provide supplementary information and emphasize important data from the text. NEW! Online resources on the companion Evolve website include: Database of exam questions Timed practice exams Custom test generator to mimic the NBDE I Sample cases Answers and rationales Downloadable apps NEW! Practice and testing modes for NBDE I review allow you to test yourself via category or in a testing format that allows you to create an unlimited number of unique practice tests with instant feedback. UPDATED! New test items types in practice exams include multiple correct answer, extended matching, and answer ordering question types that are found on the latest NBDE exam from the Joint Commission on National Dental Examinations (JCNDE).

Prepare for practice with the only book on local anesthesia written specifically for dental hygienists! *Local Anesthesia for the Dental Hygienist, 2nd Edition*, provides complete instructions for the safe and effective administration of local anesthesia. Written by noted dental hygiene educator Demetra Logothetis, the first edition won a 2012 PROSE Honorable Mention award. This edition adds a new chapter on children and adolescent patients, plus new coverage of anesthetic agents and advanced techniques. With colorful and detailed illustrations showing dental anatomy and hundreds of clinical photos of injection techniques, as well as discussions of the Human Needs Paradigm to promote patient-centered care, this reference prepares you for success on board exams and confidence in practice. Clear, approachable writing style makes it easier to learn proper techniques and gain confidence, acknowledging not only the patient's fear of injection but also the fears of the inexperienced clinician. An outstanding art program features more than 500 full-color photographs and illustrations. Technique and Procedures boxes provide illustrated, step-by-step instructions for performing specific procedures, including indications, contraindications, nerves and teeth affected, operator and patient positioning, insertion point, penetration, amount of anesthetic, and working time. Color-coded anesthesia boxes match the color scheme developed and used by the ADA (American Dental Association) and help in choosing the best agent for the type of anesthesia required, providing images, selection tips, precautions, and maximum dosing information. Review questions at the end of each chapter provide the opportunity to assess your understanding, and the Evolve companion website provides a 55-question mock examination and chapter practice quizzes. Case studies make it easier to apply concepts to the clinical setting and to develop problem-solving skills. Dental Hygiene Considerations boxes summarize key points and tips for optimal care. Key terms are highlighted within the text and defined in the glossary. Learning objectives begin each chapter and set goals for what you will accomplish; they also help you study for examinations. A focus on the Human Needs Theory relates the administration of local anesthesia and dental hygiene care to the eight human needs. Summary tables and boxes help you review and study concepts, procedures, and techniques. Expert author Demetra Logothetis is a dental hygiene educator with 20 years of experience teaching local anesthesia and pain control. End-of-chapter resources include lists of current, evidence-based literature for further research or study.

Use the successful First Aid formula to pass the National Board Dental Exam Part II with flying colors! The new "bible" for NBDE Part II preparation! This high-yield, comprehensive review of topics examined on the National Board Dental Examination (NBDE) Part II is written for dental students by recent dental graduates who aced the boards. Written for students by students who aced the exam, and reviewed by top dental school faculty Hundreds of high-yield facts and mnemonics boost exam-day performance Five case studies for top performance on the case-based component of the NBDE Part II Four-page color insert of images 100+ clinical images and illustrations you must know on exam day For the ultimate NBDE study package, be sure to purchase First Aid for the NBDE Part 1. Visit: [www.FirstAidfortheBoards.com](http://www.FirstAidfortheBoards.com)

Business tendency surveys are carried out to obtain qualitative information for use in monitoring the current business situation and forecasting short-term developments. This publication is a practical manual on the design and implementation of such surveys, as well as on how the results can be interpreted and used for economic analysis and forecasting. It includes a system of harmonised business tendency surveys, developed by the European Commission and the OECD Secretariat, to collect qualitative data from business managers in the manufacturing, construction, trade and service sectors.

Murrinhpatha is an Australian Aboriginal language spoken in a region of tropical savannah and tidal inlets on the north coast of the continent. Some 3000 speakers live mostly in the towns of Wadeye and Nganmariyanga, though they maintain close ties to their traditional lands, totems and spirit ancestors. Murrinhpatha word structure is highly complex, and quite distinct from the better-known Pama-Nyungan languages of central and southern Australia. Murrinhpatha is characterised by prolific compounding, clitic clusters, cumulative inflection, irregular allomorphy and phonological assimilation. This book provides a comprehensive account of these phenomena, giving particular attention to questions of morphological constituency, lexical storage, and whether there is really such thing as a 'word' unit.

Written by experts in comparative, developmental, social, cognitive and cultural psychology, this book introduces the novel concept of affective social learning to help explain why what matters to us, matters to us. In the same way that social learning describes how we observe other people's behaviour to learn how to use a particular object, affective social learning describes how

we observe other people's emotions to learn how to value a particular object, person or event. As such, affective social learning conceptualises the transmission of value from a given culture to a given person and reveals why the things that are so important to us can be of no consequence at all to others.

If nobody wants him, that's fine. He'll just take care of himself. When his father dies, Dave knows nothing will ever be the same. And then it happens. Dave lands in an orphanage—the cold and strict Hebrew Home for Boys in Harlem—far from the life he knew on the Lower East Side. But he's not so worried. He knows he'll be okay. He always is. If it doesn't work out, he'll just leave, find a better place to stay. But it's not that simple. Outside the gates of the orphanage, the nighttime streets of Harlem buzz with jazz musicians and swindlers; exclusive parties and mystifying strangers. Inside, another world unfolds, thick with rare friendships and bitter enemies. Perhaps somewhere, among it all, Dave can find a place that feels like home.

This paper presents a study that focuses on specific adjustment programs for limited periods and is aimed largely at analyzing the short-run implications of the policy measures. The longer run implications are also discussed whenever relevant, since much of the rationale for policies and many of the beneficial effects on the poor are likely to be realized over time. The study also notes any compensatory targeting measures oriented to the poor, together with their implications for the adjustment efforts and the political viability of the programs. These analyses may provide lessons for improving the design of future adjustment programs. The chapter also summarizes the sample countries and programs; and describes the methodology used in the study. The results of the study suggest that adjustment programs in general have important distributional implications. During the process of adjustment, it is inevitable that some social groups gain while others lose, particularly when adjustment is aimed at a shift in sectoral resource allocation.

\*\*\*Includes Practice Test Questions\*\*\* NBDHE Secrets helps you ace the National Board Dental Hygiene Exam, without weeks and months of endless studying. Our comprehensive NBDHE Secrets study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined. NBDHE Secrets includes: The 5 Secret Keys to NBDHE Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive General review including: Microbiology Review, Characteristics Of Bacteria Types, Dental Decay, General Medical Pathological Conditions, Dentistry Related Pathological Conditions, ANUG, Red Lesions, White Lesions, TMJ Review, Normal TMJ Function, TMJ Dysfunction, Axial Skeleton, Appendicular Skeleton, Four Basic Tissues, Integumentary (Skin) System, Muscles Of Mastication, Muscles Of Expression, Autonomic Nervous System, Cranial Nerves, Elevated Intracranial Pressure, Spinal Tracts, Descending Pathways, Basal Ganglia Review, Respiratory Conditions, Circulatory System, Course Of Circulation, Cardiovascular Conditions, Endocrine Review, Major Hormones, Gland Review, Radiography Review, Tongue Review; A comprehensive Dental Anatomy and Occlusion review including: Key Terms, The Basics, Jaws And Dental Arches, Classes Of Teeth, and much more...

Offering the most realistic NBDHE review and practice available, Mosby's Review Questions for the National Board Dental Hygiene Examination includes both a print book and companion website to prepare you for exam success. In the book, you'll review with more than 1,250 Component A practice questions — with each answer including a rationale for both correct and incorrect answer options. Online, you can review the same questions plus an additional 420 case-based items related to Component B in 1) practice mode or 2) timed, exam-simulation mode with randomized tests that match the number and distribution of questions on the NBDHE. From a team of dental hygiene experts including lead editor Barbara Bennett, this Q&A resource is an excellent supplement to any NBDHE content review book! More than 1,680 multiple-choice questions provide comprehensive practice spanning the entire NBDHE, with 1,250+ items relating to Component A — more than six times the number of questions on the actual exam! — and 420 case-based questions related to Component B. Rationales accompany each question, fully explaining why each answer choice is either correct or incorrect and thus serving as secondary content review. Distribution of questions matches each category on the NBDHE test specifications, ensuring that you have adequate practice for each content area. An Evolve companion website includes all 1,250+ questions from the book plus additional case studies with color images and accompanying questions, available either in practice mode with instant feedback or in exam-simulation format with results and feedback provided at the end of the exam. A test creator and timer on Evolve generates NBDHE-style tests that mimic the number and distribution of questions on the NBDHE and also provides realistic practice with time management during the exam. 16 detailed case studies on Evolve, each of which includes a patient medical/dental history, completed periodontal chart, oral radiographs, clinical photographs, and 20-35 multiple-choice questions for patients in the five main categories covered on the NBDHE (adult periodontitis, pediatric, geriatric, special needs, and medically compromised). References to text sources make it easy to review or find more information on specific topics.

Research Design and Methods: A Process Approach guides students through the research process, from conceiving of and developing a research idea, to designing and conducting a study, to analyzing and reporting data. The authors present students with information on the numerous decisions they must make when designing and conducting research and indicate how their early decisions affect how data are collected, analyzed, and interpreted later in the research process. A focus on the importance of ethical conduct, both in the treatment of research subjects and in the reporting of research results, directs the text.

Although collective emotions have a long tradition in scientific inquiry, for instance in mass psychology and the sociology of rituals and social movements, their importance for individuals and the social world has never been more obvious than in the past decades. The Arab Spring revolution, the Occupy Wall Street movement, and mass gatherings at music festivals or mega sports events clearly show the impact collective emotions have both in terms of driving conflict and in uniting people. But these examples only show the most obvious and evident forms of collective emotions. Others are more subtle, although less important: shared moods, emotional atmospheres, and intergroup emotions are part and parcel of our social life. Although these phenomena go hand in hand with any formation of sociality, they are little understood. Moreover, there still is a large gap in our understanding of individual emotions on the one hand and collective emotional phenomena on the other hand. This book presents a comprehensive overview of contemporary theories and research on collective emotions. It spans several disciplines and brings together, for the first time, various strands of inquiry and up-to-date research in the study of collective emotions and related phenomena. In focusing on conceptual, theoretical, and methodological issues in collective emotion research, the volume narrows the gap between the wealth of studies on individual emotions and inquiries into collective emotions. The book catches up with a renewed interest into the collective dimensions of emotions and their close relatives, for example emotional climates, atmospheres, communities, and intergroup emotions. This interest is propelled by a more general increase in research on the social and interpersonal aspects of emotion on the one hand, and by trends in philosophy and cognitive science towards refined conceptual analyses of collective entities and the collective properties of cognition on the other hand. The book includes sections on: Conceptual Perspectives; Collective Emotion in Face-to-Face Interactions; The Social-Relational Dimension of Collective Emotion; The Social Consequences of Collective

Emotions; Group-Based and Intergroup Emotion; Rituals, Movements, and Social Organization; and Collective Emotions in Online Social Systems. Including contributions from psychologists, philosophers, sociologists, and neuroscience, this volume is a unique and valuable contribution to the affective sciences literature.

This book addresses the point of intersection between cognition, metacognition, and culture in learning and teaching Science, Technology, Engineering, and Mathematics (STEM). We explore theoretical background and cutting-edge research about how various forms of cognitive and metacognitive instruction may enhance learning and thinking in STEM classrooms from K-12 to university and in different cultures and countries. Over the past several years, STEM education research has witnessed rapid growth, attracting considerable interest among scholars and educators. The book provides an updated collection of studies about cognition, metacognition and culture in the four STEM domains. The field of research, cognition and metacognition in STEM education still suffers from ambiguity in meanings of key concepts that various researchers use. This book is organized according to a unique manner: Each chapter features one of the four STEM domains and one of the three themes—cognition, metacognition, and culture—and defines key concepts. This matrix-type organization opens a new path to knowledge in STEM education and facilitates its understanding. The discussion at the end of the book integrates these definitions for analyzing and mapping the STEM education research. Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com)

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