

Fitness For Service Evaluations For Piping And Pressure Vessels Asme Code Simplified Mcgraw Hill Mechanical Engineering

The United States Social Security Administration (SSA) administers two disability programs: Social Security Disability Insurance (SSDI), for disabled individuals, and their dependent family members, who have worked and contributed to the Social Security trust funds, and Supplemental Security Income (SSI), which is a means-tested program based on income and financial assets for adults aged 65 years or older and disabled adults and children. Both programs require that claimants have a disability and meet specific medical criteria in order to qualify for benefits. SSA establishes the presence of a medically-determined impairment in individuals with mental disorders other than intellectual disability through the use of standard diagnostic criteria, which include symptoms and signs. These impairments are established largely on reports of signs and symptoms of impairment and functional limitation. Psychological Testing in the Service of Disability Determination considers the use of psychological tests in evaluating disability claims submitted to the SSA. This report critically reviews selected psychological tests, including symptom validity tests, that could contribute to SSA disability determinations. The report discusses the possible uses of such tests and their contribution to disability determinations. Psychological Testing in the Service of Disability Determination discusses testing norms, qualifications for administration of tests, administration of tests, and reporting results. The recommendations of this report will help SSA improve the consistency and accuracy of disability determination in certain cases.

Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments—assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment—what students know and how well they know it—as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

Emergency exercises address and reveal the significant gaps between plans and capabilities. They are an important component of an organization's emergency planning and preparedness, yet few emergency managers and practitioners have training in designing or

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evaluating emergency exercises. In this practical handbook, author Robert McCreight explains the essential elements and core principles of exercise design and evaluation. The book focuses on natural disasters and technological emergencies that occur in communities of any size. It provides emergency planners, public health professionals, emergency managers, police officers, and fire fighters with an in-depth look at exercise design issues and an accessible guide to designing and evaluating emergency exercises.

The fitness industry is experiencing a new boom characterized by the proliferation of interactive and customizable technology, from exercise-themed video games to smartphone apps to wearable fitness trackers. This new technology presents the possibility of boundless self-tracking, generating highly personalized data for self-assessment and for sharing among friends. While this may be beneficial – for example, in encouraging physical activity – the new fitness boom also raises important questions about the very nature of our relationship with technology. This is the first book to examine these questions through a critical scholarly lens. Addressing key themes such as consumer experience, gamification, and surveillance, *Fitness, Technology and Society* argues that fitness technologies – by ‘datafying’ the body and daily experience – are turning fitness into a constant pursuit. The book explores the origins of contemporary fitness technologies, considers their implications for consumers, producers, and for society in general, and reflects on what they suggest about the future of fitness experience. Casting new light on theories of technology and the body, this is fascinating reading for all those interested in physical cultural studies, technology, and the sociology of sport.

Many regulations issued by the U.S. Environmental Protection Agency (EPA) are based on the results of computer models. Models help EPA explain environmental phenomena in settings where direct observations are limited or unavailable, and anticipate the effects of agency policies on the environment, human health and the economy. Given the critical role played by models, the EPA asked the National Research Council to assess scientific issues related to the agency's selection and use of models in its decisions. The book recommends a series of guidelines and principles for improving agency models and decision-making processes. The centerpiece of the book's recommended vision is a life-cycle approach to model evaluation which includes peer review, corroboration of results, and other activities. This will enhance the agency's ability to respond to requirements from a 2001 law on information quality and improve policy development and implementation. The U.S. Social Security Administration (SSA) provides disability benefits through the Social Security Disability Insurance (SSDI) and Supplemental Security Income (SSI) programs. To receive SSDI or SSI disability benefits, an individual must meet the statutory definition of disability, which is "the inability to engage in any substantial gainful activity [SGA] by reason of any medically determinable physical or mental impairment which can be expected to result in death or which has lasted or can be expected to last for a continuous period of not less than 12 months." SSA uses a five-step sequential process to determine whether an adult applicant meets this definition. *Functional Assessment for Adults with Disabilities* examines ways to collect information about an individual's physical and mental (cognitive and noncognitive) functional abilities relevant to work requirements. This report discusses the types of information that support findings of limitations in functional abilities relevant to work requirements, and provides findings and conclusions regarding the collection of information and assessment of functional abilities relevant to work requirements.

This workbook applies the CDC Framework for Program Evaluation in Public Health. The purpose of this workbook is to help public health program managers, administrators, and evaluators develop a joint understanding of what constitutes an evaluation plan, why it is important, and how to develop an effective evaluation plan in the context of the planning process. This workbook is intended to assist in developing an evaluation plan but is not intended to serve as a complete resource on how to implement program evaluation.

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Fitness-for-Service Evaluations for Piping and Pressure Vessels ASME Code Simplified McGraw-Hill Mechanical Engineering

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Based on some of his students most frequently asked questions, Antaki emphasizes the practical applications of this ASME recommended practice. With this book readers will understand and apply API 579 in their daily work. The material is based on the author's course and presented in clear concise manor. The book demonstrates how the disciplines of stress analysis, materials engineering, and nondestructive inspection interact and apply to fitness-for-service assessment. These assessment methods apply to pressure vessels, piping, and tanks that are in service. This makes it the perfect companion book for Ellenberger's, Pressure Vessels: ASME Code Simplified as well as Ellenberger's Piping Systems and Pipeline: ASME B31 Code Simplified.

Governments and clinical providers are investing billions of dollars in health information technologies. This is being done with the expectation that HIT adoption will translate into healthier patients experiencing better care at lower cost. As the first wave of adoption comes to an end, stakeholders are ready to evaluate the results of their investment and make decisions about future directions. As a result, structured evaluations of a projects impact are an essential element of the justification for investment in HIT. This book provides an easy-to-read reference outlining the basic concepts, theory, and methods required to perform a systematic evaluation of HIT.

This book is an update and expansion of topics covered in Guidelines for Mechanical Integrity Systems (2006). The new book is consistent with Risk-Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms. Also, example testing an inspection programs is included for various types of equipment and systems. Guidance and examples are provided for selecting and maintaining critical safety systems.

The definitive leadership guide on safe practices The release of chemicals and other hazardous materials pose significant, potentially catastrophic threats worldwide. An alarming number of such events, all of which are preventable, occur too often. Reducing the frequency of serious incidents is a fundamental responsibility of leadership at all levels, from frontline managers and supervisors to C-suite executives and the board of directors as well. Process Safety Leadership from the Boardroom to the Frontline is a practical, authoritative guide that clearly demonstrates how to create a viable culture of safety within an organization, implement and maintain disciplined management systems, and address the risks of process safety deficiencies. The most important factor in any management system is leadership. For chemical process safety management, effective and informed leadership provides direction, reinforces commitment, and drives responsibility. Written by experts from the Center for Chemical Process Safety, the world's largest provider of

engineering curriculum materials for process safety, this pragmatic book contains the critical information and guidelines required to lead and manage process safety. Detailed yet accessible chapters examine topics such as strengthening management system accountability, driving operation within constraints, ensuring corporate memory, verifying execution, and more. Designed to be frequently used, shared, and discussed by leadership teams throughout an organization, this indispensable resource: Demonstrates the many ways process safety benefits an organization, based on benchmarking and broad industrial experience Develops skills and expands knowledge needed to drive consistent, reliable process safety performance Describes essential behaviors and actions for leaders to drive excellence in process safety cultures and disciplined management systems Helps establish risk criteria and safeguards for companies Presents new and previously unpublished experiences, approaches, and thinking Written for executives, plant leaders, functional managers, frontline supervisors and also individual contributors, *Process Safety Leadership from the Boardroom to the Frontline* provides a much-needed guide for instituting safe practices within a company. The Center for Chemical Process Safety (CCPS) has been the world leader in developing and disseminating information on process safety management and technology since 1985. The CCPS, an industry technology alliance of the American Institute of Chemical Engineers (AIChE), has published over 100 books in its process safety guidelines and process safety concepts series, and over 10 training modules through its Safety in Chemical Engineering Education (SACHE) series.

"Corey and Zelig, both experienced and highly regarded police and forensic psychologists, have written a comprehensive overview of the two most common psychological evaluations conducted by police psychologists: evaluations of the psychological suitability of police candidates and the psychological fitness of incumbent police officers. Filling a gap in the practice literature, this is the first text to explain the legal, procedural, ethical, and clinical foundations for these evaluations untethered to any single assessment instrument. The three foundational chapters provide readers with a review of the most prominent federal laws and regulations, professional practice guidelines, and ethical standards pertinent to these evaluations. The four applied chapters provide detailed procedural guidance, including advice for obtaining informed consent, providing disclosure to the involved parties, conducting clinical and collateral interviews, selecting written assessment instruments, integrating the assessment findings to reach determinations of suitability and fitness, and preparing written reports and testimony that anticipate their various audiences and uses. Throughout the text, Corey and Zelig distinguish between enforceable, standards-based requirements and aspirational best practices.

Steeped in case law, personal anecdotes, and advice on best practices, and certain to become a valued primer in the field, Corey and Zelig's *Evaluations of Police Suitability and Fitness for Duty* is written with a clarity and depth that will appeal to experienced and novice psychologists alike, as well as to police and human resource administrators whose

work involves the review or oversight of these evaluations"--

Physical fitness affects our ability to function and be active. At poor levels, it is associated with such health outcomes as diabetes and cardiovascular disease. Physical fitness testing in American youth was established on a large scale in the 1950s with an early focus on performance-related fitness that gradually gave way to an emphasis on health-related fitness. Using appropriately selected measures to collect fitness data in youth will advance our understanding of how fitness among youth translates into better health. In *Fitness Measures and Health Outcomes in Youth*, the IOM assesses the relationship between youth fitness test items and health outcomes, recommends the best fitness test items, provides guidance for interpreting fitness scores, and provides an agenda for needed research. The report concludes that selected cardiorespiratory endurance, musculoskeletal fitness, and body composition measures should be in fitness surveys and in schools. Collecting fitness data nationally and in schools helps with setting and achieving fitness goals and priorities for public health at an individual and national level.

While some books about police psychology contain a chapter on the fitness-for-duty question, this is the first comprehensive publication focused exclusively on psychological fitness-for-duty evaluations (FFDEs) for law enforcement personnel. This handbook is ideal for professionals and for coursework designed to prepare individuals for careers as police or municipal officials, psychologists, students, behavioral science specialists, human rights advocates, and attorneys. A helpful glossary makes the book even more useful for students and those who do not have extensive academic or formal training in psychology or public administration. *A Handbook for Psychological Fitness-for-Duty Evaluations in Law Enforcement* describes in detail the mechanics of setting up a fitness-for-duty methodology and examines the effectiveness of FFDEs in law enforcement. You'll find clear instructions for developing a FFDE system from the law enforcement executive's viewpoint (valuable for attorneys, police psychologists, and civil service board members as well), and an extensive bibliography with particular emphasis on laws and cases that provide guidance to psychological and law enforcement professionals. Several appendices provide examples of documentation that can be used in the evaluation process. This book brings you reliable information on: legal precedents, with a review of legal cases (in language appropriate for law enforcement executives and psychologists) the interaction between police culture, psychological assessment, and therapy federal laws that impact FFDEs, including the HIPAA, the Americans with Disabilities Act, the Family Medical Leave Act and the Fair Credit Reporting Act case law and FFDEs, with emphasis on civil rights laws, labor issues, professional ethical dilemmas, and the psychologist as a potential expert witness the proper uses—and the misuses—of the FFDE approach police departmental civil liability and the role that the FFDE plays in addressing legal risks In addition, this book contains a succinct review of psychological testing (psychometrics), and the

technicalities of employing a professional psychologist to determine the fitness of commissioned officers. A Handbook for Psychological Fitness-for-Duty Evaluations in Law Enforcement proposes a model law that could be used to improve the utility and effectiveness of FFDEs, and presents a forward-looking discussion of FFDE issues that may become controversial in the near future.

The purpose of Fitness-for-Service Fracture Assessment of Structures Containing Cracks is to facilitate the use of fracture mechanics based failure assessment procedures for the evaluation and design of structures and components. All practical structures contain flaws and the optimum combination of cost efficiency and safety whilst achieving the required capability, can only be realised by using state of the art methods such as that represented by the European flaw assessment method SINTAP/FITNET to analyse the safety risk. This book is written by practitioners with extensive experience in both the development and use of integrity assessment methods and provides comprehensive information on the basic principles and use of analytical flaw assessment. It provides an introduction to the method, its background, how it can be applied, its potential and, importantly, its limitations. The explanations are complimented by using a large number of worked examples and validation exercises which illustrate all aspects of the procedure. In addition, for students and engineers who are new to the subject, a comprehensive glossary of basic terms used in fracture mechanics based integrity evaluations is included. The topics addressed include: Crack driving force (CDF) and failure assessment diagram (FAD) type analyses Preparation of the input parameters (crack dimensions, stress-strain properties, fracture toughness, statistical aspects) Determination of the model parameters, (stress intensity factor and yield load solutions) Treatment of combined primary and secondary loading, together with residual stress effects Analysis of the effect of constraint effects (treatment of small defects and section size effects) Treatment of mixed mode loading Consideration of the influences of strength mismatch Reliability aspects Comprehensive description of the use of structural integrity methods to optimise cost effectiveness and safety Detailed description of how to evaluate the integrity of structures containing cracks Valuable background information for understanding the methods, their potential and limitations Large number of worked examples, which demonstrate all aspects of the methods Descriptive, readable writing style Applicable to a wide range of interests, from the student (university or self study) to the expert who requires a 'state of the art' document

Totally revised and updated, this second edition of the well-received Physique, Fitness, and Performance retains the unique integrated approach of its predecessor, examining the relationship of structure to function in human performance. Far surpassing the limited focus of standard exercise and fitness books, it combines the morphological study of physique relative to body structure, body size and body composition with the applied interaction of muscular, cardiovascular, motor, and metabolic system

capacities, abilities, and skills developed and acquired through exercise and training programs. Establishing a background and history for the current prevalent interrelationships between physique and physical performance, the book begins by outlining the morphological, physical, motor, and metabolic component areas of study involved in physical training. Part One introduces the study of the structure-function relationships, relating body structure, size, and composition to fitness and physical performance. Part Two and Part Three present an overview of the quantitative and qualitative study of physical and physiological conditioning, motor learning, and motor control, specifically regarding the development of motor skill within general/open loop and specific/closed loop parameter guidelines. It also covers fatigue and its physiological and psychological effects on training processes. Part Four explores nutrition and the utilization of carbohydrates, fats, proteins, water, vitamins, and minerals during physical training. It includes an overview of lipids, lipoproteins, cholesterol, and atherosclerosis; dietary goals and guidelines; and risk factors relating to heart disease and obesity within health and fitness parameter guidelines. Finally, extensive appendices present the pertinent figures, tables, and forms used in evaluation and programming. Including chapter summaries, glossaries, and references, as well as detailed and extensive appendices for measurement, assessment, and nutrient intake guidelines, *Physique, Fitness, and Performance, Second Edition* provides a unique extended research base for exercise physiology professionals.

In recent years, process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs. As part of the Center for Chemical Process Safety's Guidelines series, *Guidelines for Mechanical Integrity Systems* provides practitioners a basic familiarity of mechanical integrity concepts and best practices. The book recommends efficient approaches for establishing a successful MI program.

The Welding Engineer's Guide to Fracture and Fatigue provides an essential introduction to fracture and fatigue and the assessment of these failure modes, through to the level of knowledge that would be expected of a qualified welding engineer. Part one covers the basic principles of weld fracture and fatigue. It begins with a review of the design of engineered structures, provides descriptions of typical welding defects and how these defects behave in structures undergoing static and cyclical loading, and explains the range of failure modes. Part two then explains how to detect and assess defects using fitness for service assessment procedures. Throughout, the book assumes no prior knowledge and explains concepts from first principles. Covers the basic principles of weld fracture and fatigue. Reviews the design of engineered structures, provides descriptions of typical welding defects and how these defects behave in structures undergoing static and cyclical loading, and explains the range of failure modes. Explains how to detect and assess defects using fitness for service assessment procedures.

Pressure vessels are found everywhere -- from basement boilers to gasoline tankers -- and their usefulness is surpassed only by the hazardous consequences if they are not properly constructed and maintained. This essential reference guides mechanical engineers and technicians through the maze of the continually updated International Boiler and Pressure Vessel Codes that govern safety, design, fabrication, and inspection. * 30% new information including coverage of the recent ASME B31.3 code Factoring health and related costs into decision making is essential to confronting the nation's health problems and enhancing

public well-being. Some policies and programs historically not recognized as relating to health are believed or known to have important health consequences. For example, public health has been linked to an array of policies that determine the quality and location of housing, availability of public transportation, land use and street connectivity, agricultural practices and the availability of various types of food, and development and location of businesses and industry. Improving Health in the United States: The Role of Health Impact Assessment offers guidance to officials in the public and private sectors on conducting HIAs to evaluate public health consequences of proposed decisions -- such as those to build a major roadway, plan a city's growth, or develop national agricultural policies -- and suggests actions that could minimize adverse health impacts and optimize beneficial ones. Several approaches could be used to incorporate aspects of health into decision making, but HIA holds particular promise because of its applicability to a broad array of programs, consideration of both adverse and beneficial health effects, ability to consider and incorporate various types of evidence, and engagement of communities and stakeholders in a deliberative process. The report notes that HIA should not be assumed to be the best approach to every health policy question but rather should be seen as part of a spectrum of public health and policy-oriented approaches. The report presents a six-step framework for conducting HIA of proposed policies, programs, plans, and projects at federal, state, tribal, and local levels, including within the private sector. In addition, the report identifies several challenges to the successful use of HIA, such as balancing the need to provide timely information with the realities of varying data quality, producing quantitative estimates of health effects, and engaging stakeholders.

ASME Code for Power Boilers Simplified! Now there's a quick, easy way to make sense of one of the industry's most widely used regulatory documents: The ASME Boiler and Pressure Vessel Code. The ASME Code Simplified: Power Boilers, by Dyer D. Carroll and Dyer E. Carroll, Jr., clarifies every aspect of Section 1 of the Code plus its latest updates. You get dozens of real-world examples that help you apply the Code to the design, fabrication, repair, inspection and testing of all types of power boilers. Much more than just a Code "decoder," it packs easy-to-follow procedures for obtaining "S" and "R" stamps plus scores of sample problems, questions and answers that help you prepare for the National Boiler and Pressure Vessel Board as well as "A" and "B" endorsement exams. You get instant access to the latest requirements for: Cylindrical components under both internal and external pressure; Formed heads; Braced and stayed surfaces; Reinforced openings in heads and shells; Appurtenances and appliances; Much more.

The National Science Education Standards address not only what students should learn about science but also how their learning should be assessed. How do we know what they know? This accompanying volume to the Standards focuses on a key kind of assessment: the evaluation that occurs regularly in the classroom, by the teacher and his or her students as interacting participants. As students conduct experiments, for example, the teacher circulates around the room and asks individuals about their findings, using the feedback to adjust lessons plans and take other actions to boost learning. Focusing on the teacher as the primary player in assessment, the book offers assessment guidelines and explores how they can be adapted to the individual

classroom. It features examples, definitions, illustrative vignettes, and practical suggestions to help teachers obtain the greatest benefit from this daily evaluation and tailoring process. The volume discusses how classroom assessment differs from conventional testing and grading-and how it fits into the larger, comprehensive assessment system.

The primary purpose of fitness and body composition standards in the U.S. Armed Forces has always been to select individuals best suited to the physical demands of military service, based on the assumption that proper body weight and composition supports good health, physical fitness, and appropriate military appearance. The current epidemic of overweight and obesity in the United States affects the military services. The pool of available recruits is reduced because of failure to meet body composition standards for entry into the services and a high percentage of individuals exceeding military weight-for-height standards at the time of entry into the service leave the military before completing their term of enlistment. To aid in developing strategies for prevention and remediation of overweight in military personnel, the U.S. Army Medical Research and Materiel Command requested the Committee on Military Nutrition Research to review the scientific evidence for: factors that influence body weight, optimal components of a weight loss and weight maintenance program, and the role of gender, age, and ethnicity in weight management. The U.S. Department of Defense (DoD) faces short-term and long-term challenges in selecting and recruiting an enlisted force to meet personnel requirements associated with diverse and changing missions. The DoD has established standards for aptitudes/abilities, medical conditions, and physical fitness to be used in selecting recruits who are most likely to succeed in their jobs and complete the first term of service (generally 36 months). In 1999, the Committee on the Youth Population and Military Recruitment was established by the National Research Council (NRC) in response to a request from the DoD. One focus of the committee's work was to examine trends in the youth population relative to the needs of the military and the standards used to screen applicants to meet these needs. When the committee began its work in 1999, the Army, the Navy, and the Air Force had recently experienced recruiting shortfalls. By the early 2000s, all the Services were meeting their goals; however, in the first half of calendar year 2005, both the Army and the Marine Corps experienced recruiting difficulties and, in some months, shortfalls. When recruiting goals are not being met, scientific guidance is needed to inform policy decisions regarding the advisability of lowering standards and the impact of any change on training time and cost, job performance, attrition, and the health of the force. *Assessing Fitness for Military Enlistment* examines the current physical, medical, and mental health standards for military enlistment in light of (1) trends in the physical condition of the youth population; (2) medical advances for treating certain conditions, as well as knowledge of the typical course of chronic conditions as young people reach adulthood; (3) the role of basic training in physical conditioning; (4) the physical demands and working conditions of various jobs in today's military services; and (5) the measures that are used by the Services to characterize an individual's physical condition. The focus is on the enlistment of 18- to 24-year-olds and their first term of service.

Do you want to know how to use science to optimize your health, fitness, and lifestyle? Do you want to know how to protect yourself against misguided, misleading, and even menacing advice supposedly supported by research? And do you want to get up to speed quickly, regardless of your educational background? If so, then *Fitness Science Explained* is for you. It's a crash course in reading, understanding, and applying scientific research, and it teaches you in simple terms what most people will never know about how to not suck at fitness science. *Fitness Science Explained* covers all of the big moving parts, including the basics of the scientific method to the differences between

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randomized trials and observational studies, the power of the placebo effect, the importance of sample sizes, the anatomy of statistical analysis, and much more. You'll also learn how to get access to full-text studies (without spending a fortune) and the most popular journals for exercise, nutrition, and supplementation, and you'll get a scientist-formulated "cheat sheet" that'll help you quickly and accurately estimate the quality of research you want to review. So, whether you want to discover and use evidence-based methods for building muscle or losing fat faster, reducing your risk of disease or dysfunction, or maximizing some other aspect of your body, mind, or life, Fitness Science Explained will show you the way. Scroll up, click the "Buy" button now, and learn how to use science to get fitter, healthier, and happier. Forty papers from the July 1998 Conference balance the four legs of the assessment chair--analysis (ductile and brittle fracture including creep crack growth and LTA behavior); NDE and monitoring (ultrasonics, acoustic emission, eddy current, technology transfer, among others); materials behavior (weldment failure modes, hydrogen attack and cracking, toughness estimation, reheat cracking, advanced alloys, and creep modeling); and codes and standards (insights into API, ASME, and many European organizations). Contains an author index but no subject index. Annotation copyrighted by Book News, Inc., Portland, OR

This book takes a learner-oriented approach as it strives to make complex material understandable and usable. By understanding the underlying principles of measurement and evaluation, readers will then be able to apply those principles and concepts in a variety of physical activity and health-related settings. Practical exercises and applications demonstrate the usefulness of measurement and evaluation, reinforce key points, and make readers active participants in their own education. The book is divided into three parts. Part One introduces the measurement process, showing readers the relevance of measurement and evaluation to their personal and professional lives, and including examples and statistics related to such concepts as validity, reliability, and objectivity. The two chapters in Part Two further help readers understand numbers and assist those who need to use more advanced statistical calculations. Part Three presents measurement and evaluation applications in various settings, such as measuring physical fitness; measuring exercise, physical activity, and health; measuring in competitive sports and coaching; measuring and evaluating knowledge and assigning grades; and measuring in research. Throughout, discussions and examples show the relevance and application of measurement and evaluation in various professions, including physical therapy, athletic training, fitness/wellness management, exercise and sport psychology, exercise science, coaching, and physical education.

Be prepared for your future role in a service-oriented agency. This textbook provides practical guidance on program evaluation while avoiding replicating other course material. Drawing on over 40 years of subject knowledge, Allen Rubin describes outcome designs that are feasible for service-oriented agencies and that match the degree of certainty needed by key users of outcome evaluations. The utility and easy calculation of within-group effect sizes are outlined, which enhance the value of evaluations that lack control groups. Instructions are also given on how to write and disseminate an evaluation report in a way maximizes its chances of being used. Conducting focus group interviews and capitalising on the value of non-probability samples will become second nature after following the effective and pragmatic advice mapped out chapter-by-chapter.

Evaluating dietary intake, determining energy metabolism, and conducting other nutritional assessments are essential in understanding the relationships between diet, exercise, health, and physical performance, especially in athletes. The first comprehensive source on the subject, Nutritional Assessment of Athletes thoroughly examines these methods,

Never before has a business initiative transformed corporations so dramatically. While it has been credited with improving productivity,

slashing costs, and improving profit margins, it can cause much angst among employees who need to change the way they currently work and adhere to a new philosophy. That's where characters Joe and Larry step in to deliver *The Power of Six Sigma*. This fictionalized tale simplifies a complicated topic through the lives of two typical business professionals. Contrary to other books on the subject, *The Power of Six Sigma* explains the overall philosophy of Six Sigma effectively in a nonthreatening way, taking no more than two hours to read.

Strength and power are recognised as key components of human health and performance. Therefore, it is vital for exercise scientists and strength and conditioning practitioners to be able to assess these qualities effectively. Testing methods of these components are often presented as standalone chapters in textbooks which provides the reader with an overview of these aspects. *Testing and Evaluation of Strength and Power* provides a detailed explanation of testing and evaluation methods for strength and power. The book considers the relationship between the methods of assessment, research on the various approaches to evaluation and how practitioners and researchers can use the information in applied settings. The book provides the reader with a comprehensive overview of methods of strength and power assessment protocols and how they can be used to inform programming. This integrated approach to assessment of strength and power is recommended reading for students on strength and conditioning course and of vital reading to those on specialised courses on strength and power as well as coaches in the fitness testing and strength and conditioning disciplines.

One of the most critical requirements for safe and reliable nuclear power plant operations is the availability of competent maintenance personnel. However, just as the nuclear power industry is experiencing a renaissance, it is also experiencing an exodus of seasoned maintenance professionals due to retirement. The perfect guide for engineers just entering the field or experienced maintenance supervisors who need to keep abreast of the latest industry best practices, *Nuclear Power Plant Maintenance: Mechanical Systems, Equipment and Safety* covers the most common issues faced in day-to-day operations and provides practical, technically proven solutions. The book also explains how to navigate the various maintenance codes, standards and regulations for the nuclear power industry. Discusses 50 common issues faced by engineers in the nuclear power plant field Provides advice for complying with international codes and standards (including ASME) Describes safety classification for systems and components Includes case studies to clearly explain the lessons learned over decades in the nuclear power industry Annotation Contains 19 papers presented during five of the technical sessions sponsored by the design and analysis committee during the August 2002 conference. The researchers present new developments and methods for the evaluation of service induced damage such as cracking or wall thinning. Among the topics are fitness for purpose assessment of a full encirclement split tee for hot tapping, probabilistic integrity assessment of axial flaw in CANDU pressure tubes, non-linear analysis of anchored tanks subject to equivalent seismic loading, and development of a handbook for the refinery and petrochemical industries. No subject index. Annotation c. Book News, Inc., Portland, OR (booknews.com).

Offers an occupational ergonomic analysis of medical selection procedures for disabled and able-bodied labour-market entrants. The book re-examines the concept of fitness for work and emphasizes humanitarian and legislative factors.

Many scientific sport assessment resources are difficult to understand, can be time consuming to implement, and provide data that are difficult to analyze. *Assessments for Sport and Athletic Performance* effectively solves those problems in this practical, user-

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friendly guide to performance-based evaluation. A perfect resource for coaches and fitness professionals, *Assessments for Sport and Athletic Performance* is a streamlined guide through the process of identifying appropriate tests for individuals or teams, making use of common low-cost equipment to administer the tests, interpreting data, adjusting training programs based on the results, and continually monitoring the training.

In *Structural Condition Assessment*, editor-in-chief Robert T. Ratay gathers together the leading people in the field to produce the first unified resource on all aspects of structural condition assessment for strength, serviceability, restoration, adaptive reuse, code compliance, and vulnerability. Organized by the four main stages of a structural evaluation, this book provides an introduction to structural deterioration and its consequences, the business and legal aspects of conducting an evaluation, initial survey and evaluation techniques for various structures, and specific tests for five of the most common structural materials (concrete, steel, masonry, timber and fabric.)

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