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KEY=INTERNATIONAL - BRYANT CUNNINGHAM

FRACTURE AND FATIGUE CONTROL IN STRUCTURES

APPLICATIONS OF FRACTURE MECHANICS

Annotation An introduction for practicing engineers or students at the beginning graduate or advanced undergraduate level, emphasizing the application of fracture mechanics to preventing fracture and fatigue failures in structures, rather than the theoretical aspects of the field. The topics include stress analysis for members with cracks, resistance forces, fatigue crack initiation, and fitness for service. Among the case studies are bridges, oil tankers, and steel casings. The earlier editions were in 1977 and 1987. Annotation copyrighted by Book News, Inc., Portland, OR.

FRACTURE AND FATIGUE CONTROL IN STRUCTURES

APPLICATIONS OF FRACTURE MECHANICS

ASM International This book introduces the field of fracture mechanics from an applications viewpoint. Then it focuses on fitness for service, or life extension, of existing structures. Finally, it provides case studies to allow the practicing professional engineer or student to see the applications of fracture mechanics directly to various types of structures.

FATIGUE AND FRACTURE

UNDERSTANDING THE BASICS

ASM International "This book emphasizes the physical and practical aspects of fatigue and fracture. It covers mechanical properties of materials, differences between ductile and brittle fractures, fracture mechanics, the basics of fatigue, structural joints, high temperature failures, wear, environmentally-induced failures, and steps in the failure analysis process."--publishers website.

BRIDGE MAINTENANCE, SAFETY, MANAGEMENT, RESILIENCE AND SUSTAINABILITY

PROCEEDINGS OF THE SIXTH INTERNATIONAL IABMAS CONFERENCE, STRESA, LAKE MAGGIORE, ITALY, 8-12 JULY 2012

CRC Press Bridge Maintenance, Safety, Management, Resilience and Sustainability contains the lectures and papers presented at The Sixth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), held in Stresa, Lake Maggiore, Italy, 8-12 July, 2012. This volume consists of a book of extended abstracts (800 pp) and a DVD (4057 pp) co

PROCEEDINGS OF THE 7TH INTERNATIONAL CONFERENCE ON FRACTURE FATIGUE AND WEAR

FFW 2018, 9-10 JULY 2018, GHENT UNIVERSITY, BELGIUM

Springer These proceedings gather a selection of peer-reviewed papers presented at the 7th International Conference on Fracture Fatigue and Wear (FFW 2018), held at Ghent University, Belgium on 9-10 July 2018. The contributions, prepared by international scientists and engineers, cover the latest advances in and innovative applications of fracture mechanics, fatigue of materials, tribology and wear of materials. The book is intended for academics, including graduate students and researchers, as well as industrial practitioners working in the areas of fracture fatigue and wear.

CRYOGENIC BEHAVIOUR OF MATERIALS FOR PRESTRESSED CONCRETE

FIB - International Federation for Structural Concrete

THE MECHANICS AND RELIABILITY OF FILMS, MULTILAYERS AND COATINGS

Cambridge University Press **A comprehensive treatment of the mechanics of multilayers and its implications for reliability, with easy-to-use software to compute key results.**

CONCRETE TENSION AND SIZE EFFECTS

FIB - International Federation for Structural Concrete

FRACTURE MECHANICS OF CONCRETE: STRUCTURAL APPLICATION AND NUMERICAL CALCULATION

STRUCTURAL APPLICATION AND NUMERICAL CALCULATION

Springer Science & Business Media Concrete has traditionally been known as a material used widely in the construction of roads, bridges and buildings. Since cost effectiveness has always been one of the more important aspects of design, concrete, when reinforced and/or prestressed, is finding more use in other areas of application such as floating marine structures, storage tanks, nuclear vessel containments and a host of other structures. Because of the demand for concrete to operate under different loading and environmental conditions, increasing attention has been paid to study concrete specimens and structure behavior. A subject of major concern is how the localized segregation of the constituents in concrete would affect its global behavior. The degree of nonhomogeneity due to

material property and damage. by yielding and/or cracking depends on the size scale and loading rate under consideration. Segregation or clustering of aggregates at the macroscopic level will affect specimen behavior to a larger degree than it would to a large structure such as a dam. Hence, a knowledge of concrete behavior over a wide range of scale is desired. The parameters governing micro-and macro-cracking and the techniques for evaluating and observing the damage in concrete need to be better understood. This volume is intended to be an attempt in this direction. The application of Linear Elastic Fracture Mechanics to concrete is discussed in several of the chapters.

MECHANICAL BEHAVIOR OF MATERIALS

Cambridge University Press A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

BIOMECHANICS OF SPORT AND EXERCISE

Human Kinetics Biomechanics of Sport and Exercise, Fourth Edition With Web Resource, introduces exercise and sport biomechanics, using concise terms that explain external forces and their effects, how the body generates forces to maintain or change position, and how forces create movement.

DIAGNOSTICS AND PROGNOSTICS OF ENGINEERING SYSTEMS: METHODS AND TECHNIQUES

METHODS AND TECHNIQUES

IGI Global Industrial Prognostics predicts an industrial system's lifespan using probability measurements to determine the way a machine operates. Prognostics are essential in determining being able to predict and stop failures before they occur. Therefore the development of dependable prognostic procedures for engineering systems is important to increase the system's performance and reliability. Diagnostics and Prognostics of Engineering Systems: Methods and Techniques provides widespread coverage and discussions on the methods and techniques of diagnosis and prognosis systems. Including practical examples to display the method's effectiveness in real-world applications as well as the latest trends and research, this reference source aims to introduce fundamental theory and practice for system diagnosis and prognosis.

ENTROPY BASED FATIGUE, FRACTURE, FAILURE PREDICTION AND STRUCTURAL HEALTH MONITORING

MDPI Traditionally fatigue, fracture, damage mechanics are predictions are based on empirical curve fitting models based on experimental data. However, when entropy is used as the metric for degradation of the material, the modeling process becomes physics based rather than empirical modeling. Because, entropy generation in a material can be calculated from the fundamental equation of the material. This collection of manuscripts is about using entropy for "Fatigue, Fracture, Failure Prediction and Structural Health Monitoring". The theoretical paper in the collection provides the mathematical and physics framework behind the unified mechanics theory, which unifies universal laws of motion of Newton and laws of thermodynamics at ab-initio level. Unified Mechanics introduces an additional axis called, Thermodynamic State Index axis which is linearly independent from Newtonian space x, y, z and time. As a result, derivative of displacement with respect to entropy is not zero, in unified mechanics theory, as in Newtonian mechanics. Any material is treated as a thermodynamic system and fundamental equation of the material is derived. Fundamental equation defines entropy generation rate in the system. Experimental papers in the collection prove validity of using entropy as a stable metric for Fatigue, Fracture, Failure Prediction and Structural Health Monitoring.

ELASTOPLASTIC MODELING

John Wiley & Sons

OCEANIC ENGINEERING INTERNATIONAL

NORTH AMERICAN TUNNELING 2018 PROCEEDINGS

Society for Mining, Metallurgy & Exploration Your timely source for more cost-effective and less disruptive solutions to your underground infrastructure needs. The North American Tunneling Conference is the premier biennial tunneling event for North America, bringing together the brightest, most resourceful, and innovative minds in the tunneling industry. It underscores the important role that the industry plays in the development of underground spaces, transportation and conveyance systems, and other forms of sustainable underground infrastructure. With every conference, the number of attendees and breadth of topics grow. The authors—experts and leaders in the industry—share the latest case histories, expertise, lessons learned, and real-world applications from around the globe. Crafted from a collection of 126 papers presented at the conference, this book takes you deep inside the projects. It includes challenging design issues, fresh approaches on performance, future projects, and industry trends as well as ground movement and support, structure analysis, risk and cost management, rock tunnels, caverns and shafts, TBM technology, and water and wastewater conveyance.

SAFETY AND PERFORMANCE CONCEPT. RELIABILITY ASSESSMENT OF CONCRETE STRUCTURES

GUIDE TO GOOD PRACTICE

FIB - Féd. Int. du Béton Concrete structures have been built for more than 100 years. At first, reinforced concrete was used for buildings and bridges, even for those with large spans. Lack of methods for structural analysis led to conservative and reliable design. Application of prestressed concrete started in the 40s and strongly developed in the 60s. The spans of bridges and other structures like halls, industrial structures, stands, etc. grew significantly larger. At that time, the knowledge of material behaviour, durability and overall structural performance was substantially less developed than it is today. In many countries statically determined systems with a fragile behavior were designed for cast in situ as well as precast structures. Lack of redundancy resulted in a low level of robustness in structural systems. In addition, the technical level of individual technologies (e.g. grouting of prestressed cables) was lower than it is today. The number of concrete structures, including prestressed ones, is extremely high. Over time and with increased loading, the necessity of maintaining safety and performance parameters is impossible without careful maintenance, smaller interventions, strengthening and even larger reconstructions. Although some claim that unsatisfactory structures should be replaced by new ones, it is often impossible, as authorities, in general, have only limited resources. Most structures have to remain in service, probably even longer than initially expected. In order to keep the existing concrete structures in an acceptable condition, the development of methods for monitoring, inspection and assessment, structural identification, nonlinear analysis, life cycle evaluation and safety and prediction of the future behaviour, etc. is necessary. The scatter of individual input parameters must be considered as a whole. This requires probabilistic approaches to individual partial problems and to the overall analysis. The members of the fib Task Group 2.8 "Safety and performance concepts" wrote, on the basis of the actual knowledge and experience, a comprehensive document that provides crucial knowledge for existing structures, which is also applicable to new structures. This guide to good practice is divided into 10 basic chapters dealing with individual issues that are critical for activities associated with preferably existing concrete structures. Bulletin 86 starts with the specification of the performance-based requirements during the entire lifecycle. The risk issues are described in chapter two. An extensive part is devoted to structural reliability, including practical engineering approaches and reliability assessment of existing structures. Safety concepts for design consider the lifetime of structures and summarise safety formats from simple partial safety factors to develop approaches suitable for application in sophisticated, probabilistic, non-linear

analyses. Testing for design and the determination of design values from the tests is an extremely important issue. This is especially true for the evaluation of existing structures. Inspection and monitoring of existing structures are essential for maintenance, for the prediction of remaining service life and for the planning of interventions. Chapter nine presents probabilistically-based models for material degradation processes. Finally, case studies are presented in chapter ten. The results of the concrete structures monitoring as well as their application for assessment and prediction of their future behaviour are shown. The risk analysis of highway bridges was based on extensive monitoring and numerical evaluation programs. Case studies perfectly illustrate the application of the methods presented in the Bulletin. The information provided in this guide is very useful for practitioners and scientists. It provides the reader with general procedures, from the specification of requirements, monitoring, assessment to the prediction of the structures' lifecycles. However, one must have a sufficiently large amount of experimental and other data (e.g. construction experience) in order to use these methods correctly. This data finally allows for a statistical evaluation. As it is shown in case studies, extensive monitoring programs are necessary. The publication of this guide and other documents developed within the fib will hopefully help convince the authorities responsible for safe and fluent traffic on bridges and other structures that the costs spent in monitoring are first rather small, and second, they will repay in the form of a serious assessment providing necessary information for decision about maintenance and future of important structures.

INTRODUCTION TO UNIFIED MECHANICS THEORY WITH APPLICATIONS

[Springer Nature](#) This text describes the mathematical formulation and proof of the unified mechanics theory (UMT) which is based on the unification of Newton's laws and the laws of thermodynamics. It also presents formulations and experimental verifications of the theory for thermal, mechanical, electrical, corrosion, chemical and fatigue loads, and it discusses why the original universal laws of motion proposed by Isaac Newton in 1687 are incomplete. The author provides concrete examples, such as how Newton's second law, $F = ma$, gives the initial acceleration of a soccer ball kicked by a player, but does not tell us how and when the ball would come to a stop. Over the course of Introduction to Unified Mechanics Theory, Dr. Basaran illustrates that Newtonian mechanics does not account for the thermodynamic changes happening in a system over its usable lifetime. And in this context, this book explains how to design a system to perform its intended functions safely over its usable life time and predicts the expected lifetime of the system without using empirical models, a process currently done using Newtonian mechanics and empirical degradation/failure/fatigue models which are curve-fit to test data. Written as a textbook suitable for upper-level undergraduate mechanics courses, as well as first year graduate level courses, this book is the result of over 25 years of scientific activity with the contribution of dozens of scientists from around the world including USA, Russia, Ukraine, Belarus, Spain, China, India and U.K.

ROCK FRACTURES IN GEOLOGICAL PROCESSES

[Cambridge University Press](#) Rock fractures control many of Earth's dynamic processes, including plate-boundary development, tectonic earthquakes, volcanic eruptions, and fluid transport in the crust. An understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water, geothermal water, and petroleum. This book combines results from fracture mechanics, materials science, rock mechanics, structural geology, hydrogeology, and fluid mechanics to explore and explain fracture processes and fluid transport in the crust. Basic concepts are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements. Many additional examples and exercises are provided online, allowing readers to practise formulating and quantitative testing of models. Rock Fractures in Geological Processes is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the Earth's crust.

HANDBOOK OF PERIDYNAMIC MODELING

[CRC Press](#) This handbook covers the peridynamic modeling of failure and damage. Peridynamics is a reformulation of continuum mechanics based on integration of interactions rather than spatial differentiation of displacements. The book extends the classical theory of continuum mechanics to allow unguided modeling of crack propagation/fracture in brittle, quasi-brittle, and ductile materials; autonomous transition from continuous damage/fragmentation to fracture; modeling of long-range forces within a continuous body; and multiscale coupling in a consistent mathematical framework.

PROCEEDINGS OF 5TH INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING ENGINEERING AND TECHNOLOGIES

NEWTECH 2017

[Springer](#) This book presents the proceedings from the 5th NEWTECH conference (Belgrade, Serbia, 5-9 June 2017), the latest in a series of high-level conferences that bring together experts from academia and industry in order to exchange knowledge, ideas, experiences, research results, and information in the field of manufacturing. The range of topics addressed is wide, including, for example, machine tool research and in-machine measurements, progress in CAD/CAM technologies, rapid prototyping and reverse engineering, nanomanufacturing, advanced material processing, functional and protective surfaces, and cyber-physical and reconfigurable manufacturing systems. The book will benefit readers by providing updates on key issues and recent progress in manufacturing engineering and technologies and will aid the transfer of valuable knowledge to the next generation of academics and practitioners. It will appeal to all who work or conduct research in this rapidly evolving field.

EXPERIMENTAL STRESS ANALYSIS FOR MATERIALS AND STRUCTURES

STRESS ANALYSIS MODELS FOR DEVELOPING DESIGN METHODOLOGIES

[Springer](#) This book summarizes the main methods of experimental stress analysis and examines their application to various states of stress of major technical interest, highlighting aspects not always covered in the classic literature. It is explained how experimental stress analysis assists in the verification and completion of analytical and numerical models, the development of phenomenological theories, the measurement and control of system parameters under operating conditions, and identification of causes of failure or malfunction. Cases addressed include measurement of the state of stress in models, measurement of actual loads on structures, verification of stress states in circumstances of complex numerical modeling, assessment of stress-related material damage, and reliability analysis of artifacts (e.g. prostheses) that interact with biological systems. The book will serve graduate students and professionals as a valuable tool for finding solutions when analytical solutions do not exist.

FRACTURE MECHANICS

WITH AN INTRODUCTION TO MICROMECHANICS

[Springer Science & Business Media](#) - self-contained and well illustrated - complete and comprehensive derivation of mechanical/mathematical results with emphasis on issues of practical importance - combines classical subjects of fracture mechanics with modern topics such as microheterogeneous materials, piezoelectric materials, thin films, damage - mechanically and mathematically clear and complete derivations of results

THE LIFE OF CRACKS

THEORY AND APPLICATION

[Cambridge Scholars Publishing](#) Many people find the concept of fracture and damage mechanics to be somewhat problematic, mainly because, until recently, close attention in mechanics was focused especially on the strength and resistance of materials. In this sense, to speak of fracture is as uncomfortable for some as it is to speak of a deadly disease. In confronting and preventing a fatal disease, one must understand its complexity, symptoms, and behavior; by the same token, in securing the strength of an engineering structure, one must understand the reasons and type of its potential failure. This book will provide knowledge and insights on this matter to its readers.

THE ATHLETE'S SHOULDER E-BOOK

[Elsevier Health Sciences](#) The latest edition of this in-depth look at athletic injuries of the shoulder has been updated to feature 16 new chapters, additional illustrations and algorithms, an added focus on arthroscopic treatments, and pearls that highlight key information. Additional contributing authors give you a fresh spin on new and old topics from rehabilitation exercises to special coverage of female athletes, pediatrics, and golfers. This book offers coverage of arthroscopy, total joint replacement, instability, football, tennis, swimming, and gymnastic injuries, rotator cuff injuries, and much, much more! The large range of topics covered in this text ensures that it's a great resource for orthopaedists, physical therapists, athletic trainers, and primary care physicians. Presents a multidisciplinary approach to the care of the shoulder, combining contributions from the leaders in the field of orthopedic surgery, physical therapy, and athletic training. Demonstrates which exercises your patients should perform in order to decrease their chance of injury or increase strength following an injury through illustrated exercises for rehabilitation and injury prevention. Illustrates how the shoulder is affected during activity of certain sports with a variety of tables and graphs. Covers a large range of topics including all shoulder injuries to be sufficiently comprehensive for both orthopaedists and physical therapists/athletic trainers. Features 16 new chapters, including Internal Impingement, Bankarts: Open vs. Arthroscopy, Adhesive Capsulitis of the Shoulder, Cervicogenic Shoulder Pain, Proprioception: Testing and Treatment, and more. Details current surgical and rehabilitation information for all aspects of shoulder pathology to keep you up-to-date. Organizes topics into different sections on anatomy, biomechanics, surgery, and rehabilitation for ease of reference.

BEHAVIOR AND ANALYSIS OF REINFORCED CONCRETE STRUCTURES UNDER ALTERNATE ACTIONS INDUCING INELASTIC RESPONSE

[FIB - International Federation for Structural Concrete](#)

MACHINE DESIGN WITH CAD AND OPTIMIZATION

[John Wiley & Sons](#) MACHINE DESIGN WITH CAD AND OPTIMIZATION A guide to the new CAD and optimization tools and skills to generate real design synthesis of machine elements and systems Machine Design with CAD and Optimization offers the basic tools to design or synthesize machine elements and assembly of prospective elements in systems or products. It contains the necessary knowledge base, computer aided design, and optimization tools to define appropriate geometry and material selection of machine elements. A comprehensive text for each element includes: a chart, excel sheet, a MATLAB® program, or an interactive program to calculate the element geometry to guide in the selection of the appropriate material. The book contains an introduction to machine design and includes several design factors for consideration. It also offers information on the traditional rigorous design of machine elements. In addition, the author reviews the real design synthesis approach and offers material about stresses and material failure due to applied loading during intended performance. This comprehensive resource also contains an introduction to computer aided design and optimization. This important book: Provides the tools to perform a new direct design synthesis rather than design by a process of repeated analysis Contains a guide to knowledge-based design using CAD tools, software, and optimum component design for the new direct design synthesis of machine elements Allows for the initial suitable design synthesis in a very short time Delivers information on the utility of CAD and Optimization Accompanied by an online companion site including presentation files Written for students of engineering design, mechanical engineering, and automotive design. Machine Design with CAD and Optimization contains the new CAD and Optimization tools and defines the skills needed to generate real design synthesis of machine elements and systems on solid ground for better products and systems.

OFFSHORE DRILLING PLATFORMS JOB INTERVIEW

[Petrogav International](#) The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and answers for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

TRAINING FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS

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150 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING RIGS

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HOW TO BE PREPARED FOR JOB INTERVIEW OFFSHORE OIL & GAS RIGS

[Petrogav International](#) The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 273 questions and

answers for job interview and as a BONUS 150 links to video movies and web addresses to 205 recruitment companies where you may apply for a job. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

HOW TO FIND A JOB ON OFFSHORE DRILLING PLATFORMS

[Petrogav International](#) This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 309 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job.

ROCK FRACTURE MECHANICS

Springer

MECHANICAL BEHAVIOR OF MATERIALS

ENGINEERING METHODS FOR DEFORMATION, FRACTURE AND FATIGUE

[Prentice Hall](#) Comprehensive in scope and readable, this book explores the methods used by engineers to analyze and predict the mechanical behavior of materials. Author Norman E. Dowling provides thorough coverage of materials testing and practical methods for forecasting the strength and life of mechanical parts and structural members.

MECHANISMS OF CRACKING AND DEBONDING IN ASPHALT AND COMPOSITE PAVEMENTS

STATE-OF-THE-ART OF THE RILEM TC 241-MCD

[Springer](#) Premature cracking in asphalt pavements and overlays continues to shorten pavement lifecycles and creates significant economic and environmental burden. In response, RILEM Technical Committee TC 241-MCD on Mechanisms of Cracking and Debonding in Asphalt and Composite Pavements has conducted a State-of-the-Art Review (STAR), as detailed in this comprehensive book. Cutting-edge research performed by RILEM members and their international partners is presented, along with summaries of open research questions and recommendations for future research. This book is organized according to the theme areas of TC 241-MCD - i.e., fracture in the asphalt bulk material, interface debonding behaviour, and advanced measurement systems. This STAR is expected to serve as a long term reference for researchers and practitioners, as it contributes to a deeper fundamental understanding of the mechanisms behind cracking and debonding in asphalt concrete and composite pavement systems.

FRACTURE BEHAVIOUR OF POLYMERS

[Springer Science & Business Media](#) Over recent years there has been a tremendous upsurge in interest in the fracture behaviour of polymers. One reason for this is the increasing use of polymers in structural engineering applications, since in such circumstances it is essential to have as complete an understanding as possible of the polymer's fracture behaviour. This book is designed to meet the requirements of those who need to be informed of the latest developments in the field of polymer fracture. It is written particularly for research workers but it should also prove invaluable for advanced students taking final-year undergraduate or postgraduate courses. The main emphasis is upon the use of fracture mechanics in the study of polymer fracture but this approach is then developed to cover the micromechanisms of the fracture process. Particular prominence is given to the relationship between structure, mechanical properties and the mechanics and mechanisms of fracture. The first chapter is a brief introduction which has several aims. One is to introduce polymers to the reader who does not have a strong background in the subject and another is to provide background material that will be used at later stages. The book is then split into two main parts: the first deals with the mechanics and mechanisms whilst the second is concerned with materials. In Part I phenomena such as molecular fracture, fracture mechanics, shear yielding and crazing are covered from a general viewpoint.

HIGH-PERFORMANCE BOLTING TECHNOLOGY FOR OFFSHORE OIL AND NATURAL GAS OPERATIONS

[National Academies Press](#) Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits, and improvements in drilling and recovery technology, have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills, with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and, thus, cleanup can be problematic. Bolted connections are an integral feature of deep-water well operations. High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment, as well as best practices from other industrial sectors. It focuses on critical bolting—bolts, studs, nuts, and fasteners used on critical connections.

THE TECHNOLOGICAL PROCESS ON OFFSHORE DRILLING PLATFORMS

[Petrogav International](#) This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. As a BONUS this eBook contains web addresses to 303 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job.