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A12 - MORENO SWANSON

Illustrations and simple, rhyming text follow Mrs. Garcia's class on a hunt in and around school for examples onomatopoeia--words that imitate the sound of what they name.

Tubular Structures XV contains the latest scientific and engineering developments in the field of tubular structures, as presented at the 15th International Symposium on Tubular Structures (IST-S15, Rio de Janeiro, Brazil, 27-29 May 2015). The International Symposium on Tubular Structures (ISTS) has a long-standing reputation for being the principal

Quiz your family at home with crosswords, puzzles and games. Expert crossword solver and setter, Tim Moorey, seeks to dispel the myth that cryptic crosswords are the preserve of the elite. In this new, easy guide, he demonstrates that anyone who enjoys words and word play can learn to solve a cryptic crossword clue.

Few drugs have as many cultural and social implications as cocaine and crack. These drugs link Hollywood and Detroit, and are signifiers of classic rock icons and racial inequality. How have these drugs shaped the world we live in? How do they shape lives today? How can addictions to these drugs be overcome? Cocaine and crack are highly addictive and can cause severe health problems, but there are ways to get support and treatment. This book offers the support readers need in order to seek treatment for themselves and their loved ones.

This book provides a rich and cutting-edge analysis of one of the most prominent literary groups in Latin America: the Mexican Crack Writers. The first part explores the history of the group and its relation to the Latin American literary tradition, while the second part is devoted to the critical analysis of the works of each of the authors: Ricardo Chávez Castañeda, Ignacio Padilla, Pedro

Ángel Palou, Eloy Urroz and Jorge Volpi. The volume is further enriched by the inclusion, in the appendix, of the two manifestos of the group: the Crack Manifesto and the Crack Postmanifesto (1996-2016). It will be of great interest to students and scholars focusing on contemporary Latin American literature.

There are two constants in academic and theological discourse throughout history, they are the debate around secularization and the dialogue concerning the intersection of religion and education. Each age has had its debate about modernizing forces that drive concerns of impending secularization. In this publication this theme is approached from perspectives of teachers, of students, of policy makers and situated in a politico-historical context. Aware of the fact that in today's plural societies one sacred canopy is non-existent anymore, cracks of the sacred canopy/canopies are described, as well as 'the light that gets in', the possible and challenging ways out are roughly sketched.

Crack Control: Using Fracture Theory to Create Tough New Materials goes beyond just trying to understand the origin of cracks and fracture in materials by also providing readers with the knowledge and techniques required to stop cracks at the nano- and micro-levels, covering the fundamentals of crack propagation, prevention, and healing. The book starts by providing a concise foundational overview of cracks and fracture mechanics, then looks at real-life ways that new tougher materials have been developed via crack inhibition. Topics such as crack equilibrium, stress criterion, and stress equations are then outlined, as are methods for inventing new crack-resistant materials. The importance of crack healing is emphasized and cracks that grow under tension, bending, compression, crazing, and adhesion are discussed at length

as well Provides a better understanding of crack formation in various materials allowing for more efficient investigations of crack-based material or structural failure Demonstrates how to prevent cracks by arresting them at the nano- and micro-levels Looks at methods for developing new tougher and stronger materials through crack inhibition Emphasizes the importance of crack healing and explains crack stopping through changing the peel shape in various ways

Crack the Code: Cook Any Indian Meal With Confidence is a pioneering workbook styled cookbook that demystifies the seemingly complex processes involved in creating a well-balanced Indian dish. This book translates practical cooking advice from many generations of chefs from within Nandita's family into a simple structured approach about how to craft a well seasoned Indian dish. It shares information about the fundamental building blocks of the Indian cuisine, provides sample recipes within its content to illustrate the methods, and eliminates any fear associated with cooking Indian food - the single biggest reservation in the true appreciation of a vibrant, flavorful and healthy cuisine. The two dozen simple practice recipes showcase the role of spices and ingredients and highlights the patterns of balancing and layering flavors. It includes quick notes on health benefits of using specific spices. Most notably, it shows the reader how to build essential taste profiles for an authentic dining experience. Whether it is a comfort meal or feast, a side dish, one-pot-meal or an easy decadent dessert, Crack the Code includes several quintessentially Indian and Indian inspired recipes. Recipes are chosen from Nandita's own family kitchen, who keeps family health at the forefront of her cooking as shown in these recipes as well. This expanded

edition was made possible, thanks to the support of a large and generous Kickstarter community. The edition is greatly enhanced for visual quality and ease of reading.

Codes can carry big secrets! Throughout history, lots of good guys and lots of bad guys have used codes to keep their messages under wraps. This fun and flippable nonfiction features stories of hidden treasures, war-time maneuverings, and contemporary hacking as well as explaining the mechanics behind the codes in accessible and kid friendly forms. Sidebars call out activities that invite the reader to try their own hand at cracking and crafting their own secret messages. This is the launch of an exciting new series that invites readers into a STEM topic through compelling historical anecdotes, scientific backup, and DIY projects.

The book summarizes recent international research and experimental developments regarding fatigue crack growth investigations of rubber materials. It shows the progress in fundamental as well as advanced research of fracture investigation of rubber material under fatigue loading conditions, especially from the experimental point of view. However, some chapters will describe the progress in numerical modeling and physical description of fracture mechanics and cavitation phenomena in rubbers. Initiation and propagation of cracks in rubber materials are dominant phenomena which determine the lifetime of these soft rubber materials and, as a consequence, the lifetime of the corresponding final rubber parts in various fields of application. Recently, these phenomena became of great scientific interest due to the development of new experimental methods, concepts and models. Furthermore, crack phenomena have an extraordinary impact on rub-

ber wear and abrasion of automotive tires; and understanding of crack initiation and growth in rubbers will help to support the growing number of activities and worldwide efforts of reduction of tire wear losses and abrasion based emissions.

The thoroughly revised & Upgraded 7th edition of the book Crack IAS Prelims General Studies (CSAT) - Paper 2 is an exhaustive book capturing all the important topics being asked in the last few years of the IAS Prelim exam. • The book has been divided into 9 Units & 40 Chapters. • Each chapter provides theory along with an Exercise in every chapter with fully solved past CSAT questions from 2011 onwards. • The book has separate units for Comprehension and English Language Comprehension. • English Language RC passage covers all literary styles. • Exhaustive exercise of situation-based questions to test decision making and administrative course of action. • Vast variety of situation-based questions to test Interpersonal Skills including Communication Skills. • Questions of Critical Reasoning based on Passages and Puzzles that are mostly asked in the exam, are covered with almost all varieties of questions in very large number. • Miscellaneous graphs as asked in 2018 Symmetric and Skew Distribution of Data as asked in 2015 are provided in the Data Interpretation unit of this book. • The Exercise covers the fully solved past CSAT questions from 2011 onwards. In all the book contains 3000+ MC-Qs with detailed solutions. The book provides 5 Mock Tests with Solutions on the exact pattern as followed in the last CSAT paper. A vivid portrait of how Americans grappled with King's death and legacy in the days, weeks, and months after his assassination On April 4, 1968, Martin Luther King Jr. was fatally shot as he stood on the balcony of the Lorraine Motel in Memphis. At the time of

his murder, King was a polarizing figure--scorned by many white Americans, worshipped by some African Americans and liberal whites, and deemed irrelevant by many black youth. In *The Heavens Might Crack*, historian Jason Sokol traces the diverse responses, both in America and throughout the world, to King's death. Whether celebrating or mourning, most agreed that the final flicker of hope for a multiracial America had been extinguished. A deeply moving account of a country coming to terms with an act of shocking violence, *The Heavens Might Crack* is essential reading for anyone seeking to understand America's fraught racial past and present.

This Licentiate of Engineering thesis is a product of the results generated in the research project KME-702, which comprises modelling, microstructure investigations and material testing of cast nickel-base superalloys. The main objective of this work is to model the fatigue crack propagation behaviour in single-crystal nickel-base superalloys. To achieve this, the influence of the crystal orientations on the cracking behaviour is assessed. The results show that the crystal orientation is strongly affecting the material response and must be accounted for. Furthermore, a linear elastic crack driving force parameter suitable for describing crystallographic cracking has been developed. This parameter is based on resolved anisotropic stress intensity factors and is able to predict the correct crystallographic cracking plane after a transition from a Mode I crack. Finally, a method to account for inelastic deformations in a linear elastic fracture mechanics context was investigated. A residual stress field is extracted from an uncracked finite-element model with a perfectly plastic material model and super-

imposed on the stress field from the cracked model with a linear elastic material model to account for the inelastic deformations during the determination of the crack driving force. The modelling work is validated by material testing on two different specimen geometries at different temperatures. This Licentiate of Engineering thesis consists of two parts, where Part I gives an introduction and background to the research area, while Part II consists of three papers. Denna licentiatavhandling är en produkt av resultat som genererats i forskningsprojektet KME-702, och omfattar modellering, mikrostrukturundersökningar och materialprovning av gjutna nickelbaserade superlegeringar. Huvudsyftet med detta arbete är att modellera sprickförloppet under utmattning i enkristallina nickelbaserade superlegeringar. För att uppnå detta har kristallorienteringens inverkan på sprickbeteendet utvärderats. Resultaten visar att kristallorienteringen har en stark inverkan på materialbeteendet, således måste hänsyn till denna tas. Dessutom har en linjär-elastisk sprickdrivkraftsparameter lämplig att beskriva kristallografisk sprickbildning utvecklats. Denna parameter är baserad på anisotropa spänningsintensitetsfaktorer på kristallplan och kan prediktera det korrekta kristallografiska sprickplanet efter övergång från Modus I spricka. Slutligen har undersökts en metod för att ta hand om inelastiska deformationer i en linjär-elastisk brottmekanisk kontext. Ett restspänningsfält extraherades från en osprucken finita element modell med en ideal plastisk materialmodell. Denna överlagrares på spänningsfältet från den spruckna modellen, som analyserades med en linjär-elastisk materialmodell, för att ta hänsyn till de inelastiska deformationerna vid bestämning av sprickdrivkraften. Modelleringsarbetet validerades genom materialprovning på två olika

provgeometrier vid olika temperaturer. Licentiatavhandlingar består av två delar, där del I ger en introduktion och bakgrund till forskningsområdet medan del II består av tre papper. Dieses Lizentiat der Ingenieurwissenschaften ist im Rahmen des Forschungsprojekts KME-702 entstanden, welches Modellierung, Mikrostrukturuntersuchungen und Materialtests von gegossenen nickelbasierten Superlegierungen umfasst. Das Hauptziel dieser Arbeit ist die Modellierung der Ermüdungsrissausbreitung in einkristallinen nickelbasierten Superlegierungen. Um dieses zu erreichen, wurde der Einfluss der Kristallorientierungen auf das Rissverhalten untersucht. Die Ergebnisse zeigen, dass die Kristallorientierung das Materialverhalten stark beeinflusst und daher berücksichtigt werden muss. Darüber hinaus wurde ein linear elastischer Rissantriebskraftparameter entwickelt, der zum Beschreiben von kristallographischen Rissen geeignet ist. Dieser Parameter basiert auf aufgelösten anisotropen Spannungsintensitätsfaktoren und ist in der Lage, die korrekte kristallographische Rissebene nach einem Übergang von einem Modus I Riss vorherzusagen. Abschließend wird in einem linear-elastisch bruchmechanischen Kontext eine Methode untersucht, die nichtelastischen Deformationen bei der Bestimmung der Rissantriebskraft zu berücksichtigen. Dazu wird aus einem Finite-Elemente Modell, welches keinen Riss aufweist und mit einem perfekt plastischen Materialmodell beschrieben wird, das Restspannungsfeld extrahiert und dem Spannungsfeld überlagert, welches aus dem Modell mit Riss unter Verwendung eines linear elastischen Materialmodells erzeugt wurde. Die Modellierung wird durch Materialtests an zwei verschiedenen Probengeometrien bei unterschiedlichen Temperaturen validiert. Dieses Lizentiat der Inge-

neurwissenschaften besteht aus zwei Teilen, wobei Teil I eine Einführung und einen Hintergrund in das Forschungsgebiet gibt, während Teil II aus drei Forschungsartikeln besteht.

This book presents a nuanced view of Northern Ireland, a place at once deeply mired in its past and seeking to forge a new future for itself as a 'post-post-conflict' place within the context of a changing United Kingdom, a disintegrating Europe, and a globalized world. This is a Northern Ireland that is conflicted, segregated, and marginalized within modern Europe, but also hopeful and forward looking, seeking to articulate for itself a new place in the contemporary world.

What can be added to the fracture mechanics of metal fatigue that has not already been said since the 1900s? From the view point of the material and structure engineer, there are many aspects of failure by fatigue that are in need of attention, particularly when the size and time of the working components are changed by orders of magnitude from those considered by traditional means. The 21 century marks an era of technology transition where structures are made larger and devices are made smaller, rendering the method of destructive testing unpractical. While health monitoring entered the field of science and engineering, the practitioners are discovering that the correlation between the signal and the location of interest depends on a priori knowledge of where failure may initiate. This information is not easy to find because the integrity of the physical system will change with time. Required is software that can self-adjust in time according to the monitored data. In this connection, effective application of health monitoring can use a predictive model of fatigue crack growth. Earlier fatigue crack growth models assumed functional

dependence on the maximum stress and the size of the pre-existing crack or defect. Various possibilities were examined in the hope that the data could be grouped such that linear interpolation would apply.

The crack cocaine years: from deviant globalization to the 'get money' culture of late twentieth-century America.

Crack the Customer Mind Code upends customary marketing approaches and takes a deeper approach to more successful selling. Based on an analysis of successful marketing campaign patterns, Crack the Customer Mind Code teaches the reader how to align marketing messages that leverage the mind's natural progression to "yes" through seven steps: 1) identify the persona, 2) stimulate emotion, 3) calm the mind, 4) position or reposition, 5) engage with story, 6) interpret the outcome, and 7) lead prospective customers to give themselves permission to act. With this proven process, organizations can create stronger sales-producing marketing campaigns when the message is aligned with the way in which marketing information is absorbed and processed.

UPSC Syllabus & Tips to Crack IAS Prarambhik & Mukhya Pariksha with Rapid Samanya Gyan 2019 ebook (Hindi) is the revised 3rd edition of the syllabus book for undergraduate STUDENTS taking up the UPSC examinations for recruitment into the Indian Administrative Services (IAS). The book also provides tips & techniques to crack the IAS exams with special focus on Subject-wise planning for the Prelim Exam. The book contains the details of each and every subject topic which is relevant to the IAS Preliminary and Mains examination. The book will update the aspirants on the latest changes in the syllabus of the Preliminary and Mains exams.

It is an important handy tool for the aspirants which they can refer throughout their preparation.

Mission SSC by Disha is a key component to unlocking a seat in the various departments of the Govt. of India. Mission SSC is a conscious effort to address the most important topics and question patterns which prepare students for the various SSC Exams like CGL, CHSL, Jr. Engg., Multi-Tasking, Sub-Inspector etc. The book starts with the career prospects associated with each of the exams. The book comprehensively covers preparation strategies & techniques to crack the various sections - Quantitative Ability, Data interpretation, Logical Reasoning and Verbal Ability with Reading Comprehension. The book also covers shortcuts, and tips to crack the typical kinds of problems encountered in these exams. It also instructs aspirants how successfully to strategise, manage time and analyse their knowledge pattern accurately to make the most of a time-bound elimination exam.

This is the first publication ever focusing strictly on the creep behaviour in cracked sections of Fibre Reinforced Concrete (FRC). These proceedings contain the latest scientific papers about new testing methodologies, results and conclusions of multiple experimental campaigns and recommendations about significant factors of long-term behaviour, experiences from more than ten years of creep testing and some reflections about future perspectives on this topic. This book is an essential reference for all researchers of creep behaviour on FRC. This volume is the result of the efforts of the RILEM TC 261-CCF, that has been working since 2014 to develop standardized methodologies and guidelines to compare results from different laboratories and get a better understanding of the significant parameters related to creep of FRC.

Mission CAT by Disha is a key component to unlocking a winning CAT score. A stellar product in its category, Mission CAT is a conscious effort to address the most important topics and question patterns which prepare students for CAT and other MBA Entrance Exams like XAT, IIFT, MAT, CMAT, SNAP etc. The book comprehensively covers preparation strategies & techniques to crack Quantitative Ability, Data interpretation, Logical Reasoning and Verbal Ability with Reading Comprehension. The book also covers shortcuts, and tips to crack the typical kinds of problems encountered in CAT. It also instructs aspirants how successfully to strategise, manage time and analyse their knowledge pattern accurately to make the most of a time-bound elimination exam. In the Quantitative Aptitude, the book extensively covers shortcuts on Numbers, Average and Mixtures, Arithmetic and Word-based Problems, Geometry, Algebra, Counting, etc. in a very accessible and easy manner. In Verbal Ability, the book deals with Topics like Para Jumble and How to crack them scientifically with examples by at least 4 ways. Likewise, 'Facts, Inference and Judgement' has been allotted enough space with Real time Examples and more than one kind of Examples and how to differentiate Facts from Fiction. With Mission CAT, the entire CAT test preparation process has been simplified with a wide range of shortcuts and techniques which are a must to crack CAT. Through this book, Disha provides everything you need to hone your skills and perfect your scores. Special attention has been given to Group Discussion and Personal Interview which is an important part to crack MBA exams.

This dissertation was produced at the Division of Solid Mechanics at Linköping University and is part of a research project, which

comprises modelling, microstructure investigations and material testing of cast nickel-base superalloys. The main objective of this work was to deepen the understanding of the fracture behaviour of single-crystal nickel-base superalloys and to develop a model to predict the fatigue crack growth behaviour. Frequently, crack growth in these materials has been observed to follow one of two distinct cracking modes; Mode I like cracking perpendicular to the loading direction or crystallographic crack growth on the octahedral $\{111\}$ -planes, where the latter is associated with an increased fatigue crack growth rate. Thus, it is of major importance to account for this behaviour in component life prediction. Consequently, a model for the prediction of the transition of cracking modes and the correct active crystallographic plane, i.e. the crack path, and the crystallographic crack growth rate has been developed. This model is based on the evaluation of appropriate crack driving forces using three-dimensional finite-element simulations. A special focus was given towards the influence of the crystallographic orientation on the fracture behaviour. Further, a model to incorporate residual stresses in the crack growth modelling is presented. All modelling work is calibrated and validated by experiments on different specimen geometries with different crystallographic orientations. This dissertation consists of two parts, where Part I gives an introduction and background to the field of research, while Part II consists of six appended papers. Die vorliegende Dissertation wurde in der Abteilung für Festigkeitslehre an der Universität von Linköping erstellt und ist Teil eines Forschungsprojektes, welches Modellierung, Mikrostrukturuntersuchungen und Materialtests von gegossenen nickelbasierten Superlegierungen umfasst. Das Hauptziel dieser Arbeit war es, das

Verständnis des Bruchverhaltens von einkristallinen Superlegierungen auf Nickelbasis zu vertiefen und ein Modell zur Vorhersage des Wachstumsverhaltens von Ermüdungsrissen zu entwickeln. Es wurde beobachtet, dass das Risswachstum in diesen Materialien einem von zwei unterschiedlichen Rissmodi folgt; Modus I Rissfortschritt senkrecht zur Belastungsrichtung oder kristallographisches Risswachstum auf den oktaedrischen $f_{111}g$ -Ebenen, wobei letzteres mit einer erhöhten Ermüdungsrisswachstumsrate verbunden ist. Somit ist es von grosser Bedeutung dieses Verhalten in der Lebensdauervorhersage einer Komponente zu berücksichtigen. Demzufolge wurde ein Modell für die Vorhersage des Übergangs zwischen den Rissmodi und der korrekten aktiven kristallographischen Ebene, d.h. des Risspfades, sowie der kristallographischen Risswachstumsrate erarbeitet. Dieses Modell basiert auf geeigneten Rissantriebskräften, welche mit Hilfe dreidimensionaler Finite-Elemente-Simulationen berechnet werden. Im Fokus stand insbesondere der Einfluss der kristallographischen Orientierung auf das Bruchverhalten. Ausserdem wird ein Modell zur Berücksichtigung von Restspannungen in der Risswachstumsmodellierung präsentiert. Alle Modellierungsarbeiten wurden durch Experimente an verschiedenen Probengeometrien mit unterschiedlichen kristallographischen Orientierungen kalibriert und validiert. Diese Dissertation besteht aus zwei Teilen, wobei Teil I aus einer Einführung und einem Hintergrund in das Forschungsgebiet und Teil II aus sechs beigefügten Forschungsartikeln besteht.

Reasoning enhances the logical thinking skills. It determines one's aptitude which is why many competitive examinations ask questions from it. Be it, banking, SSC, railway, IAS/PCS, or any

other government recruitment exams, candidates have to score better in Reasoning Test which is a hard nut to crack for many. How to Crack Test of Reasoning is a perfect study resource to learn the problem solving skills of reasoning to make a proper preparation for the competitive examinations. It has been revised carefully according to the latest examination pattern and is divided into key chapters of Verbal Reasoning, Analytical Reasoning, and Non-Verbal Reasoning. It facilitates a complete coverage of the theory followed by exercises graded into base level and expert level for self-evaluation. Each chapter covers the latest exam questions. Also, it carries more than 2500 objective questions as a whole to boost the preparation level. Written in an easy to read manner and incorporated with complete study material, it is an amazing book to climb the ladder of success in your forthcoming competitive exams. TOC Verbal Reasoning, Analytical Reasoning, Non-Verbal Reasoning

This thesis provides an innovative strategy for rail crack monitoring using the acoustic emission (AE) technique. The field study presented is a significant improvement on laboratory studies in the literature in terms of complex rail profile and crack conditions as well as high operational noise. AE waves induced by crack propagation, crack closure, wheel-rail impact and operational noise were obtained through a series of laboratory and field tests, and analyzed by wavelet transform (WT) and synchrosqueezed wavelet transform (SWT). A wavelet power-based index and the enhanced SWT scalogram were sequentially proposed to classify AE waves induced by different mechanisms according to their energy distributions in the time-frequency domain. A novel crack sizing method taking advantage of crack closure-induced AE waves

was developed based on fatigue tests in the laboratory. The propagation characteristics of AE waves in the rail were investigated, and Tsallis synchrosqueezed wavelet entropy (TSWE) with time was finally brought forward to detect and locate rail cracks in the field. The proposed strategy for detection, location and sizing of rail cracks helps to ensure the safe and smooth operation of the railway system. This thesis is of interest to graduate students, researchers and practitioners in the area of structural health monitoring.

This book has following unique features that distinguish it from other works from the same area: 1) Investigates the influence of fissure geometry on strength failure and crack evolution behaviour of real rock material; 2) Analyzes the effect of pre-experiment high-temperature treatment on fracture mechanical behaviour of rock material with a single fissure or two parallel fissures; 3) Compares quantitatively simulated results using discrete element modelling and experimental results of fracture mechanical behaviour of rock material with two fissures; 4) Constructs the relationship between crack evolution processes and acoustic emission distribution of pre-fissured rock material under entire deformation; and 5) Discusses the crack evolution mechanism of pre-fissured rock material with respect to different confining pressures. This book can become the reference for technicians in the field of geotechnical engineering, mining engineering and geology engineering. At the same time, this book can be regarded as a good reference for scientific researchers carrying out fissured rock mechanics and correlated specialties.

Crack the Funding Code demystifies the world of angel investing,

venture capital, and corporate funding and lays out a strategic pathway for any entrepreneur to secure funding fast. Lack of funding is one of the biggest reasons small businesses fail. In 2016 in the United States alone, more than 31 percent of small business owners reported that they could not access adequate capital, and the lack of capital prevented them from growing the business/expanding operations, increasing inventory, or financing increased sales. This book will show you how to find the money, create pitches that attract investors, and then structure fair, ethical deals that will bring them new sources of outside capital and invaluable professional advice. Crack the Funding Code gives you the broader perspective on: how funding works, how investors think, and what they need to hear to put their money where your mouth is. Every entrepreneur who reads this book will get easy-to-follow deal checklists, a roadmap of where and how to locate the best funding resources and top business mentors for their industry or geographical location, and a step-by-step process to create pitches that make their idea or business irresistible.

UPSC New Syllabus & Tips to Crack IAS Preliminary and Mains Exam with Rapid GK 2019 ebook is the revised 3rd edition of the syllabus book for undergraduate STUDENTS taking up the UPSC examinations for recruitment into the Indian Administrative Services (IAS). The book also provides tips & techniques to crack the IAS exams with special focus on Subject-wise planning for the Prelim Exam. The book contains the details of each and every subject topic which is relevant to the IAS Preliminary and Mains examination. The book will update the aspirants on the latest changes in the syllabus of the Preliminary and Mains exams. It is an important handy tool for the aspirants which they can refer throughout

their preparation.

Gas turbines are widely used in industry for power generation and as a power source at "hard to reach" locations where other possibilities for electrical supply are insufficient. There is a strong need for greener energy, considering the effect that pollution has had on global warming, and we need to come up with ways of producing cleaner electricity. A way to achieve this is by increasing the combustion temperature in gas turbines. This increases the demand on the high temperature performance of the materials used e.g. superalloys in the turbine. These high combustion temperatures can lead to detrimental degradation of critical components. These components are commonly subjected to cyclic loading of different types e.g. combined with dwell-times and overloads at elevated temperatures, which influence the crack growth. Dwell-times have shown to accelerate crack growth and change the cracking behaviour in both Inconel 718 and Haynes 282. Overloads at the beginning of the dwell-time cycle have shown to retard the dwell time effect on crack growth in Inconel 718. To understand these effects more microstructural investigations are needed. The work presented in this licentiate thesis was conducted under the umbrella of the research program Turbo Power; "High temperature fatigue crack propagation in nickel-based superalloys", concentrating on fatigue crack growth mechanisms in superalloys during dwell-times, which have shown to have a devastating effect on the crack propagation behaviour. Mechanical testing was performed under operation-like conditions in order to achieve representative microstructures and material data for the subsequent microstructural work. The microstructures were microscopically investigated in a scanning electron mi-

croscope (SEM) using electron channeling contrast imaging (ECCI) as well as using light optical microscopy. The outcome of this work has shown that there is a significant increase in crack growth rate when dwell-times are introduced at the maximum load (0% overload) in the fatigue cycle. With the introduction of a dwell-time there is also a shift from transgranular to intergranular crack growth for both Inconel 718 and Haynes 282. When an overload is applied prior to the dwell-time, the crack growth rate decreases with increasing overload levels in Inconel 718. At high temperature crack growth in Inconel 718 took place as intergranular crack growth along grain boundaries due to oxidation and the creation of nanometric voids. Another observed growth mechanism was crack advance along phase boundaries with subsequent severe oxidation of the phase. This thesis comprises two parts. The first giving an introduction to the field of superalloys and the acting microstructural mechanisms that influence fatigue during dwell times. The second part consists of two appended papers, which report the work completed so far in the project.

When Bull Mastrick and Victor Konig wind up in the same psychiatric ward at age 16, each recalls and relates in group therapy the bullying relationship they have had since kindergarten as well as facts about themselves and their families that reveal how much they have in common. A first novel.

This book provides an up-to-date knowledge on theory and experimental results of rate-dependent fracture processes in metallic materials. The objective is to expose the current status of a growing branch of fracture mechanics called generally "Dynamic Fracture". Crack dynamics takes into account not only the effects of

inertia but also rate sensitivity of a material under consideration. This volume has been prepared by four leading authorities in fracture dynamics: D.R. Curran, J.F. Kalthoff, J.R. Klepaczko and F. Nilsson. A broad range of problem is covered: dynamic fracture theory, application of dynamic fracture mechanics, dynamic crack initiation and microstatistical fracture mechanics in dynamic fracture. The book in its present format may serve as a text supplement in lecturing on fracture mechanics. On the other hand, it may serve as an instructional aid in engineering of fracture prevention.

On 28 December 2014 an Airbus A320-216 aircraft registered as PK-AXC was cruising at 32,000 feet on a flight from Juanda Airport, Surabaya, Indonesia to Changi Airport, Singapore with total occupants of 162 persons. The Pilot in Command (PIC) acted as Pilot Monitoring (PM) and the Second in Command (SIC) acted as Pilot Flying (PF). The Flight Data Recorder (FDR) recorded that many master cautions activated following the failure of the Rudder Travel Limiter which triggered Electronic Centralized Aircraft Monitoring (ECAM) message of AUTO FLT RUD TRV LIM SYS. The crew tried repeatedly to reset the computers but the autopilot and auto-thrust disengaged and the flight control reverted to Alternate Law. The investigation showed that the loss of electricity and the RTLU failure were caused by a cracked solder joint. All occupants of the plane were killed in the accident.

A 2018 DIGITAL BOOK AWARD FINALIST FOR BEST BUSINESS BOOK Covered in Forbes, Fast Company, and Harvard Business Review, Crack the C-Suite Code is "a true insider's guide," according to Harvard Business School professor Boris Groysberg. How can I reach the C-suite? That is the most common question Cassandra Frangos hears from the executives she coaches. Many as-

pire to reach the C-suite, but the typical paths to the top are hard to find and difficult to follow. In Crack the C-Suite Code, Frangos reveals the hidden dynamics for reaching the C-suite. She offers expert guidance based on her experience as a consultant at Spencer Stuart and former head of global executive talent at Cisco, a company with 70,000 employees. Her deep research on the topic includes candid interviews with CEOs, hundreds of aspiring C-suite candidates, and the leading experts in the field. Frangos identifies four core paths you can follow to reach the C-suite: The Tenured Executive, The Free Agent, The Leapfrog Leader, and The Founder. To actively improve your chances for success, she presents: Insider knowledge from current CEOs and well-known executives Guiding questions that clarify the risks and rewards associated with each path Accelerators and derailers that either enhance or detract from your chances to succeed Advice on how to leverage your experience, leadership brand, and mindset to help you land on the C-suite short list Insight on how the evolving role of the CEO affects your strategy to reach the top A career playbook for anyone who aspires to the top spot, Crack the C-Suite Code features advice from successful C-level leaders, including Accompany's Amy Chang, Goldman Sachs' Edith Cooper, Nest's Yoky Matsuoka, Cisco's Chuck Robbins, and Corning's Wendell Weeks. These and other top leaders from a broad range of companies, including Microsoft, Google, and General Electric, tell the stories of their success and help aspiring executives crack the C-suite code. "If you've ever wanted to really figure out how to ascend to the C-suite, this is your Rosetta Stone."—James M. Citrin, Leader, Spencer Stuart CEO Practice, and author, You're In Charge, Now What? "Frangos has created a roadmap for execu-

tives on the fast track." —Sylvia Ann Hewlett, author, Forget a Mentor, Find a Sponsor and Executive Presence

"Cracked Shell Whole Yolk" is a collection of life events from the mind of a woman who survives domestic violence. Margo Viola escapes her abuser through the only avenue available Death. After cheating death herself, she in turn had crossed the line and committed the sin of having another persons life taken. This Memoir depicts the trials and tribulations of Margos entire life path, coupled with her overwhelming desire to make right what she had wronged. Margo shows an innate ability to overcome adversity. Margos life story proves that there are desperate changes needed in our Judicial System to narrow the brood spectrum of dispari-

ty, while handling Domestic Violence cases. Margo uses her bitter life experience as a tool for self-betterment and a guide to help others. She displays how one woman picked up her life, with heightened clarity and determination. Her strives marked the truth by living proof, of how one individual can make a difference. Margos Memoir prompts society to take a cold hard look at the true dynamics of Domestic Violence, and how it plagues our community, thus erodes our family core. Cracked Shell/Whole Yolk is a thrilling adventure of a womans life that soars at each turn of the page. Her experience touches all of us as a collective whole. Margo truly emerges from a Cracked Shell into a fully rounded Whole Yolk!