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Includes photos, diagrams, and material lists for plans ranging from small modules to room-size layouts. From Model Railroader. Minecraft creator Markus "Notch" Persson has always loved programming. Find out how he translated his childhood passion for writing code into a multi-million dollar career as the mind behind Minecraft! Three years ago, 32-year-old Markus "Notch" Persson of Stockholm was an unknown and bored computer programmer. Today, he is a multi-millionaire international icon. Minecraft, the "virtual Lego" game Markus crafted in his free time, has become one of the most talked about activities since Tetris. Talked about by tens of millions of people, in fact. It is the story of unlikely success, fast money, and the power of digital technology to rattle an empire. And it is about creation, exclusion, and the feeling of not fitting in. Here Markus opens up for the first time about his life. About his old Lego-filled desk at school. About the first computer his father brought home one day. But also about growing up in a family marked by drug abuse and conflict. But above all it is the story of the fine line between seeming misfit and creative

madman, and the birth of a tech visionary.

Minecraft: The Unlikely Tale of Markus "Notch" Persson and the Game that Changed Everything is a Cinderella story for the Internet age. The incredible tale of a little game that shook the international gaming world--now with new material including a behind-the-scenes look at the sale to Microsoft. For this second edition, the story has been enriched with more Minecraft than ever--a new section describes Minecraft's sale to Microsoft, Notch's less than heartwarming last day in the office, and Mojang's final days of independence. His whole life, all Markus Persson wanted to do was create his own games. Create his own games and get rich. Then in 2009 a strange little project of his quickly grew into a worldwide phenomenon and, in just a few short years, turned its maker into an international icon. Minecraft: The Unlikely Tale of Markus "Notch" Persson and the Game that Changed Everything is a Cinderella story for the Internet age--improbable success, fast money, and the power of digital technology to shake up a rock-solid industry. It's a story about being lost and finding your way, of breaking the rules and swimming against the current. It's about how the indie gaming scene rattled the foundations of corporate empires. But, above all, this is the story of how a creative genius chased down a crazy dream: the evolution of a shy amateur programmer into a video game god. An early 20th century case study of evolving grassroots notions

of preservation and the role of women in the American conservation movement Reviews the latest information and experimentation on the fracture-toughness testing of materials using specimens that are chevron notched, a procedure that has been an ASTM standard only since December 1989. The 13 papers were presented at a symposium in Indianapolis, May 1991; they include studies Top Notch is a dynamic communicative course that creates an unforgettable English learning experience. It helps develop confident, fluent English speakers who can successfully use the language for socializing, traveling, further education and business. "This report contains the findings of a study that was performed to establish the variability of Charpy V-notch (CVN) impact toughness within plates of A572 Grade 50 and A588 steels. The study included plate thickness up to 4 inches meeting AASHTO Zone 3 fracture notch toughness requirements. Both existing literature and the results of research conducted for this study were examined in an attempt to define the variability in CVN values. The report provides a comprehensive description of the research, including a discussion of the statistical analysis methods used, along with recommended revisions to the AASHTO Guide Specifications for Fracture Critical Non-Redundant Steel Bridge Members. The proposed revisions are intended to provide a reasonable certainty of safe and effective performance of steel plate with respect to toughness. The

contents of this report will be of immediate interest and use to bridge engineers, materials engineers, steel bridge fabrication, specification writing bodies, researchers, and others concerned with the design and fabrication of steel bridge elements." --from foreword. Joe Arachro pulled to a halt on a small hillock, looking across the expanse as it rose up into a sudden flat top butte. There was another jagged butte tilting at an angle next to the mesa, not as wide or long. It was like they just appeared from nowhere, dropped down here in the middle of the desert. And in the shimmering glare in the notch between these two buttes, a ten-year-old boy walked out of the sun, surrounded by the blazing rays. The boy doesn't speak, but he has startling powers: he heals a young girl's torn cuticle, and later erases all damage to a man's badly burnt hand, and it seems there's no limit to the miracles he can perform. After a dog gets run over by a car, the boy apparently brings the animal back to life, and a video of the event goes viral. Suddenly everybody has an idea of who the boy is, and what he might do for them -- and it's a race against time to see who can get to the boy first and gain control over him. In the wrong hands, the boy's powers could be catastrophic. From Tom Holland, director and screenwriter of Fright Night and the original Child's Play, comes this new fast-paced thriller with surprises at every turn. This book presents the unified fatigue life prediction equation for

low/medium/high cycle fatigue of metallic materials relevant to plain materials and notched components. The unified fatigue life prediction equation is the Wöhler equation, in which the "stress-based intensity parameter" is calculated based on the linear-elastic analysis. A local approach for the static fracture analysis for notched components is presented based on the notch linear-elastic stress field. In the local approach, a stress intensity parameter is taken as a stress-based intensity parameter.

Experimental verifications show that the local approach is also suited for the static fracture analysis for notched components made of ductile materials. The book is also concerned with a material failure problem under the multiaxial stress states. A concept of the material intensity parameter is introduced in this book. It is a material property parameter that depends on both Mode-I fracture toughness and Mode-II (or Mode-III) fracture toughness and the multiaxial parameter to characterize the variation of the material failure resistance (notch fracture toughness) with the multiaxial stresses states. The failure condition to assess mixed-mode fracture of notched (or cracked) components is stated as the stress-based intensity parameter being equal to the material intensity parameter. With respect to the traditional S-N equation, a similar S-N equation is presented and verified to have high accuracy. This book will be of interest to professionals in the field of fatigue and

fracture for both brittle and ductile materials. This book describes the Notch signaling pathway with a focus on molecular mechanisms. The Notch signaling pathway is a seemingly simple pathway that does not involve any second messenger. Upon ligand binding two consecutive proteolytic cleavages of the NOTCH receptor release the Notch intracellular domain from the membrane. The Notch intracellular domain migrates into the nucleus and activates gene expression. Recently, new technologies allowed us to better understand this pivotal signaling cascade and revealed new regulatory mechanisms. The different chapters cover many aspects of the Notch signaling focusing on the mechanisms governing the receptor/ligand interaction as well as on the downstream intracellular signaling events. Aspects of both canonical and non-canonical signaling are discussed and the function of Notch signaling in physiological and pathological contexts are elucidated. This book is not only intended for experts but it should also be a useful resource for young, sprouting scientists or interested scientists from other research areas, who may use this book as a stimulating starting point for further discoveries and developments. As Directors of this NATO Workshop, we welcome this opportunity to record formally our thanks to the NATO Scientific Affairs Division for making our meeting possible through generous financial support and encouragement. This meeting has two purposes: the first obvious

one because we have collected scientists from East, far East and west to discuss new development in the field of fracture mechanics: the notch fracture mechanics. The second is less obvious but perhaps in longer term more important that is the building of bridges between scientists in the frame of a network called "Without Walls Institute on Notch Effects in Fatigue and Fracture". Physical perception of notch effects is not so easy to understand as the presence of a geometrical discontinuity as a worst effect than the simple reduction of cross section. Notch effects in fatigue and fracture is characterised by the following fundamental fact: it is not the maximum local stress or stress which governs the phenomena of fatigue and fracture. The physic shows that a process volume is needed probably to store the necessary energy for starting and propagating the phenomenon. This is a rupture of the traditional "strength of material" school which always give the prior importance of the local maximum stress. This concept of process volume was strongly affirmed during this workshop. This thoroughly revised second edition is an up-to-date overview of the current knowledge of Notch and Notch signaling in embryology and cancer. It discusses this topic from Notch's role in the development of the embryo to the Notch signaling pathway's role in the development of a number of cancers, including breast cancer, malignant melanoma, Non-melanoma skin cancer, intestinal cancer and others. In the

years since the previous edition, there have been numerous developments and insights within this rapidly moving field, making this new edition urgently needed. This volume also features discussions of current insights on Notch's role in senescence, the regulation of Notch signaling by microRNAs, Notch's role in the microbiome, diet and its influence on Notch signaling and more. Taken as a whole, with its companion books -- Notch Signaling and Embryologic Development and Molecular Basis of Notch Signaling - this is a definitive discussion of the topic, presented by internationally-recognized contributors. Presented in a coherent and accessible structure, this revised and updated second edition is an essential and up-to-date guide for oncologists, embryologists, researchers and advanced students. Notch signaling regulates many cell fate decision and differentiation processes during embryonic development and tissue homeostasis. Moreover, dysregulation of the pathway is associated with human disorders and cancer. In the last 15 years it became evident that Notch plays important roles in the hematopoietic system as well as in the regulation of immune responses. This special issue on Notch regulation of the immune system summarizes recent advances and covers multiple aspects of Notch signaling within the hematopoietic and the immune system. This issue covers subjects including Notch function in embryonic and adult hematopoietic stem cells, lymphocyte development and function as well as in

T cell leukemia. Metal and composite components used in structural engineering not only contain geometrical features resulting in stress concentration phenomena, but they are also subjected to in-service multiaxial fatigue loading. To address the problem, structural engineers need reliable methodologies which allow for an adequate margin of safety. The book summarises methods devised by the author to design real components against multiaxial fatigue by taking full advantage not only of nominal but also of local stress-strain quantities. The book begins by reviewing definitions suitable for calculating the stress-strain quantities commonly used to perform fatigue assessment. The Modified Wöhler Curve Method is then explained in detail, by focusing attention on both the high- and the medium-cycle fatigue regime. The existing links between the multiaxial fatigue criterion and physical properties are also discussed. A procedure suitable for employing the method developed by the author to estimate fatigue damage both in notched and in welded components is explained. The Modified Manson-Coffin Curve method is investigated in depth, by reviewing those concepts playing a fundamental role in the so-called strain based approach. Lastly, the problem of performing the fatigue assessment of composite materials is addressed by considering design parameters influencing composite behaviour under complex cyclic loading paths and those criteria suitable for designing real components

against multiaxial fatigue. The book also contains two appendices summarising experimental data from the technical literature. These appendices provide a unique and highly valuable resource for engineers. The appendices summarise around 100 values of the material characteristic length L , experimentally determined by testing specimens made of different engineering materials and about 4500 experimental fatigue results generated by testing plain, notched and welded specimens under constant-amplitude proportional and non-proportional multiaxial fatigue loading are listed. Summarises methods devised by the author to design real components against multiaxial fatigue Reviews definitions suitable for calculating the stress-strain quantities commonly used to perform fatigue assessment Includes an in-depth explanation of both the Modified Wöhler Curve and Modified Manson-Coffin Curve Method The serendipitously discovered link between developmental biology and cancer, touched of an explosion of discoveries on the role of Notch in human malignancies, including every aspect of cancer biology, from control of differentiation, proliferation and apoptosis in transformed cells to angiogenesis, tumor-stroma interaction and anti-cancer immune responses. A number of observations have revealed that Notch even plays a role in the renewal of cancer stem cells and tumor initiating cells, which are thought to be a major cause of resistance to treatment. Targeting Notch in Cancer will provide

researchers, oncologists, pharmacologists and students with a detailed understanding of the intricate cross-talk between Notch and other pathways of therapeutic interest so to better design rational drug combinations for specific diseases and disease subsets. Divided into two parts, Part I describes in detail what we know about the genetics, molecular biology, biochemistry and structural biology of Notch, as well as the role of Notch in such processes as angiogenesis and immune surveillance. Without insights gained from these basic studies, rational targeting of Notch in human disease would be impossible. Part II describes the role of Notch and ongoing experimental therapeutic efforts in the most important subtypes of human cancers, organized in a clinically oriented fashion by organs and systems affected

The incredible tale of a little game that shook the international gaming world--now with new material including a behind-the-scenes look at the sale to Microsoft. For this second edition, the story has been enriched with more Minecraft than ever--a new section describes Minecraft's sale to Microsoft, Notch's less than heartwarming last day in the office, and Mojang's final days of independence. His whole life, all Markus Persson wanted to do was create his own games. Create his own games and get rich. Then in 2009 a strange little project of his quickly grew into a worldwide phenomenon and, in just a few short years, turned its maker into an international

icon. Minecraft: The Unlikely Tale of Markus "Notch" Persson and the Game that Changed Everything is a Cinderella story for the Internet age—improbable success, fast money, and the power of digital technology to shake up a rock-solid industry. It's a story about being lost and finding your way, of breaking the rules and swimming against the current. It's about how the indie gaming scene rattled the foundations of corporate empires. But, above all, this is the story of how a creative genius chased down a crazy dream: the evolution of a shy amateur programmer into a video game god. "Markus Persson designed his first computer game when he was just eight years old. Learn how Persson's love of computers and design helped him the popular video game Minecraft."-- World renowned researcher Dr. Barbara Fredrickson gives you the lab-tested tools necessary to create a healthier, more vibrant, and flourishing life through a process she calls "the upward spiral." You'll discover:

- What positivity is, and why it needs to be heartfelt to be effective
- The ten sometimes surprising forms of positivity
- Why positivity is more important than happiness
- How positivity can enhance relationships, work, and health, and how it relieves depression, broadens minds, and builds lives
- The top-notch research that backs the 3-to-1 "positivity ratio" as a key tipping point
- That your own sources of positivity are unique and how to tap into them
- How to calculate your current positivity ratio, track

it, and improve it With Positivity, you'll learn to see new possibilities, bounce back from setbacks, connect with others, and become the best version of yourself. Can molecular mechanisms involved in neural development help us to understand, prevent and perhaps reverse the course of brain ageing and neurodegenerative disorders? Brain development and function require complex cellular and molecular processes controlled by a number of different signaling mechanisms. One such signaling mechanism, the Notch pathway, has been recognized as an important player in the regulation of cell fate decisions during early neural development. However, the action of this evolutionary conserved and widely used cell-cell interaction mechanism is not confined to the developing nervous system. In addition, recent studies have shown that elucidating the mechanism of Notch signaling and its role in the brain is important for our understanding of neurological disorders such as Alzheimer's disease and cerebral arteriopathy CADASIL. Renowned for its unique speaking pedagogy, Top Notch is a dynamic communicative course that makes English unforgettable. Goals and achievement-based lessons with "can-do" statements enable students to confirm their progress in every class session. Top Notch builds confidence for successful verbal communication and develops critical thinking skills and reading and listening strategies. Highlights New Conversation Activator and

Pronunciation Coach Videos in every unit build conversational competence and accurate pronunciation. New: Full-color digital vocabulary flashcards for varied, enriched, and explicit practice. New: Interactive extra grammar exercises to maximize the quantity of grammar practice in every unit. New: Achievement tests include Speaking and Writing tests for every unit, ensuring a fuller evaluation of progress. Other Highlights Hundreds of supplementary practice activities and exercises ensure teachers never have to supplement the course. Extensive listening comprehension practice. Includes exposure to a variety of authentic regional and non-native accents to prepare students for English in today's world. The Top Notch TV Video program -- with hilarious sitcoms and authentic on-the-street interviews -- builds confidence in understanding natural spoken language. Top Notch Pop songs and karaoke -- with accompanying language exercises -- make English unforgettable. The expanded MyEnglishLab -- with Grammar Coach and Pronunciation Coach Videos, remedial grammar exercises, and immediate feedback on wrong answers -- enables programs to tailor Top Notch to the needs of their course. Notch signaling is an evolutionarily conserved pathway in multicellular organisms that regulates cell-fate determination during development and in stem cells. This volume, which is part of the Current Topics in Developmental Biology series, covers topics such as Notch signaling in cardiac

development and disease and Notch in stem cells. International authors provide researchers with an overview and synthesis of the latest research findings and contemporary thought in the area. Covers topics such as Notch signaling in cardiac development and disease, and Notch in stem cells International authors provide researchers with an overview and synthesis of the latest research findings and contemporary thought in the area In certain applications, a narrowband spectral notch may be desired in the output spectrum produced by a wide band interference system. Unfortunately, nonlinear effects in saturating power amplifiers can severely degrade a spectral notch applied at the amplifier input. Theoretical and experimental studies of this phenomenon are presented for notch filtered FM signals. The experiments used a TWT amplifier, and the measured results are presented graphically. The TWT input was an FM signal followed by a notch filter. In specific situations of interest, a perfect notch at the TWT input degrades to a 6-dB notch at the output. This and other results are presented and shown to agree well with theoretical predictions.

(Author). This book covers the broad area related to Notch-mediated regulation of the immune system and tumorigenesis. Notch signaling was originally identified as a crucial pathway to regulate cell fate choice. Subsequent studies, however, have revealed that Notch regulates many steps of immune cell differentiation or development as well as tumorigenesis of cells. Although there

are still many controversial issues regarding the functions or regulatory mechanism of Notch, it is important to summarize all data together in one volume to help facilitate this research area. Also, the studies regarding the functions of Notch in immune cells and tumor cells have motivated researchers and pharmaceutical companies to develop drugs for treating immune-mediated diseases and tumors. Therefore, this book covering the broad area of Notch in immunology and tumorigenesis will be attractive to many researchers including faculty members and postdoctoral fellows in academia and researchers in the pharmaceutical industry.

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