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discover the latest research results for both uncoded and coded caching techniques in future wireless network design

this is a book about how to manage the processes involved in a construction project towards a sustainable and regenerative endproduct it covers key project management concepts and links the construction process to the objectives of un sdgs and beyond zero carbon emissions throughout the whole project life cycle this introductory textbook is written from a project manager s perspective including considerations of circular economy throughout the construction process focusing on a regenerative or restorative outcome the book examines the importance of the type and purpose of a building circularity and de construction the site the client and its organisation stakeholder considerations the project organisation the procurement of consultants and contractors project performance during design and construction project hand over to the client and the building s operation and maintenance it also illustrates how to verify the building using

existing environmental certifications how to calculate carbon emissions and how to deal with used construction materials from a circular economy perspective international examples of best practice are included throughout and the book is structured in a way which students will find engaging and easy to follow this is an ideal textbook for use on construction architecture and engineering programmes where the emphasis must urgently be placed on students fostering regenerative construction solutions in their coming professional life

because of their intuitive layout extensive mathematical capabilities and convenient graphics spreadsheets provide an easy straightforward route to scientific computing this textbook for undergraduate and entry level graduate chemistry and chemical engineering students uses excel the most powerful available spreadsheet to explore and solve problems in general and chemical data analysis this is the only up to date text on the use of spreadsheets in chemistry the book discusses topics including statistics chemical equilibria ph calculations titrations and instrumental methods such as chromatography spectrometry and electroanalysis it contains many examples of data analysis and uses spreadsheets for numerical simulations and testing analytical procedures it also treats modern data analysis methods such as linear and non linear least squares in great detail as well as methods based on fourier transformation the book shows how matrix methods can be powerful tools in data analysis and how easily these are implemented on a spreadsheet and describes in detail how to simulate chemical kinetics on a spreadsheet it also introduces the reader to the use of vba the macro language of microsoft office which lets the user import higher level computer programs into the spreadsheet

use of maths is a new as level designed for students who do not wish to follow a traditional two year maths course teaches maths using contexts relevant to students understanding with a strong emphasis on interpretation and analysis

construction is the means by which designing architects and engineers transform a design idea into built reality it is from this perspective that the subject of building construction design is dealt with by the architect josé luis moro in three comprehensive volumes each is dedicated to the methodological physical and functional fundamentals the conception of a constructional solution and finally its implementation in the constructional detail not only do the three volumes provide extensive content they also ensure the greatest possible clarity in the text and graphics in order to make it easier for learners to access the material importantly they focus not only on conveying technical and scientific information but also on demonstrating the complex relationships and interactions between design material and construction great importance was attached to developing consistent overarching and meaningful correlations between the numerous and highly diverse topics covered after an introduction to planning theory topics volume 1 fundamentals addresses sustainability issues in the context of constructional design this is followed by a discussion of the most important material related considerations and their consequences for the constructional application of the materials the range of currently available industrial building products is also presented furthermore the essential requirements and functions that building structures must fulfill from a structural building physics building acoustics and fire protection perspective are examined in closing the book considers questions of durability

the 8th campaign of the cross language evaluation forum clef for european languages was held from january to september 2004 participation in the clef campaigns has increased each year and clef 2004 was no exception 55 groups submitted results for one or more of the different tracks compared with 42 groups in the previous year clef 2004 also marked a breaking point with respect to previous campaigns the focus was no longer mainly concentrated on multilingual document retrieval as in previous years but was diversified to include different kinds of text retrieval across languages e.g. exact answers in the question answering track and retrieval on different kinds of media i.e. not just plain text but collections containing image and speech as well in addition increasing attention was given to issues that regard system usability and user satisfaction with tasks to measure the effectiveness of interactive systems or system components being included in both the cross language question answering and image retrieval tasks with the collaboration of the coordinators of the interactive track the campaign culminated in a two and a half day workshop held in bath uk 15-17 september immediately following the 8th european conference on digital libraries the workshop was attended by nearly 100 researchers and system developers

this volume constitutes the refereed proceedings of the 17th international symposium on graph drawing gdg 2009 held in chicago usa during september 2009 the 31 revised full papers and 4 short papers presented were carefully reviewed and selected out of 79 submissions furthermore 10 posters were accepted in a separate submission process

modern current and future communications processing aspects motivate basic information theoretic research for a wide variety of systems for which we do not have the ultimate theoretical solutions for example a variety of problems in network information theory as the broadcast interference and relay channels which mostly remain unsolved in terms of determining capacity regions and the like technologies such as 5G cellular communications internet of things iot and mobile edge networks among others not only require reliable rates of information measured by the relevant capacity and capacity regions but are also subject to issues such as latency vs reliability availability of system state information priority of information secrecy demands energy consumption per mobile equipment sharing of communications resources time frequency space etc this book composed of a collection of papers that have appeared in the special issue of the entropy journal dedicated to information theory for data communications and processing reflects in its eleven chapters novel contributions based on the firm basic grounds of information theory the book chapters address timely theoretical and practical aspects that constitute both interesting and relevant theoretical contributions as well as direct implications for modern current and future communications systems

in this introductory textbook the author explains the key topics in cryptography he takes a modern approach where defining what is meant by secure is as important as creating something that achieves that goal and security definitions are central to the discussion throughout the author balances a largely non-rigorous style many proofs are sketched only with appropriate formality and depth for example he uses the terminology of groups and finite fields so that the reader can understand both the latest academic research and real world documents such as application programming interface descriptions and cryptographic standards the text employs colour to distinguish between public and private information and all chapters

include summaries and suggestions for further reading this is a suitable textbook for advanced undergraduate and graduate students in computer science mathematics and engineering and for self study by professionals in information security while the appendix summarizes most of the basic algebra and notation required it is assumed that the reader has a basic knowledge of discrete mathematics probability and elementary calculus

a study guide covering two compulsory modules of as mathematics

this volume focuses on uncovering the fundamental forces underlying dynamic decision making among multiple interacting imperfect and selfish decision makers the chapters are written by leading experts from different disciplines all considering the many sources of imperfection in decision making and always with an eye to decreasing the myriad discrepancies between theory and real world human decision making topics addressed include uncertainty deliberation cost and the complexity arising from the inherent large computational scale of decision making in these systems in particular analyses and experiments are presented which concern task allocation to maximize the wisdom of the crowd design of a society of edutainment robots who account for one another's emotional states recognizing and counteracting seemingly non rational human decision making coping with extreme scale when learning causality in networks efficiently incorporating expert knowledge in personalized medicine the effects of personality on risky decision making the volume is a valuable source for researchers graduate students and practitioners in machine learning stochastic control robotics and economics among other fields

this experiment is the sixth in a series of system studies dealing with various aspects of air traffic control the purpose was to evaluate the performance of a one controller system with a an omnipresent clock type identity code vs b the absence of identity on the radar blips data were recorded for a total of 1267 movements of jet type fighter and bomber aircraft which were accepted at four different entry rates four experienced usaf controllers served in the study no conflicts failures to achieve specified separations and no missed approaches occurred at the slowest input rate an average of one aircraft every 105 sec but a few conflicts and go arounds about 3 occurred at the higher rates this decrease in safety margin was most notable at the highest rate 60 sec separation measures of fuel consumption and control time in moving aircraft through a zone of 50 mi radius around the gca gate showed significant superiority for the system that provided aircraft identity an analysis of communications from controllers to pilots also showed small reductions in communications under the identity condition abstract

techniques and tools for solving acoustics problems this is the first book of its kind that describes the use of ansys finite element analysis fea software and matlab engineering programming software to solve acoustic problems it covers simple text book problems such as determining the natural frequencies of a duct to progressively more complex problems that can only be solved using fea software such as acoustic absorption and fluid structure interaction it also presents benchmark cases that can be used as starting points for analysis there are practical hints too for using ansys software the material describes how to solve numerous problems theoretically and how to obtain solutions from the theory using matlab engineering software as well as analyzing the same problem using ansys workbench and ansys mechanical apdl

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the first international conference on engineering solutions and sustainable development which is organized by the university of miskolc hungary is a significant and timely initiative creating the capacity of engineering students educators practicing engineers and industries to demonstrate values problem solving skills knowledge and attitude that are required to apply the principles of sustainable development throughout their professional career the aim of the icesd conference was creating an interdisciplinary platform for researchers and practitioners to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of technical and environmental science the conference covers the following topics process engineering modelling and optimisation sustainable and renewable energy and energy engineering waste management and reverse logistics environmental management and ecodesign circular economy and life cycle approaches smart manufacturing and smart buildings innovation and efficiency earth science academics scientists researchers and professionals from different countries and continents have contributed to this book

this book constitutes the thoroughly refereed post proceedings of the 9th international conference on computer supported cooperative work in design cscwd 2005 held in coventry uk in may 2005 the 65 revised full papers presented were carefully reviewed and selected from numerous submissions during at least two rounds of reviewing and improvement

towards energy efficient buildings envelope technologies and sustainable energy systems examines the intersection of building design and energy systems analysis paving the way to sustainable efficient buildings and our communal energy future this book begins by outlining the major energy challenges for buildings and the fundamentals and opportunities in envelope technology for their increasing the efficiency of their energy systems close analysis of various technologies is then carried out including case studies and demonstrations of impact assessment techniques the ways in which these technologies interact with energy systems within the building are drawn out and clarified for a range of readers finally detailed guidance on energy system assessment and analysis is provided bringing together these two essential disciplines for sustainable living towards energy efficient buildings will support energy engineers researchers and students of energy systems in developing technologies for energy efficient sustainable buildings breaks down the fundamentals of building envelope design for an energy engineer readership includes a variety of case studies and practical technologies with clear real world impacts on building energy systems and management leads the reader through comprehensive assessment methodologies to analysis energy system outcomes and enable sustainable cities for the future

this book constitutes the proceedings of the 14th european symposium on research in computer security

esorics 2009 held in saint malo france in september 2009 the 42 papers included in the book were carefully reviewed and selected from 220 papers the topics covered are network security information flow language based security access control privacy distributed systems security security primitives web security cryptography protocols and systems security and forensics

the 13th international conference on human computer interaction hci inter tional 2009 was held in san diego california usa july 19 24 2009 jointly with the symposium on human interface japan 2009 the 8th international conference on engineering psychology and cognitive ergonomics the 5th international conference on universal access in human computer interaction the third international conf ence on virtual and mixed reality the third international conference on internati alization design and global development the third international conference on online communities and social computing the 5th international conference on augmented cognition the second international conference on digital human mod ing and the first international conference on human centered design a total of 4 348 individuals from academia research institutes industry and gove mental agencies from 73 countries submitted contributions and 1 397 papers that were judged to be of high scientific quality were included in the program these papers dress the latest research and development efforts and highlight the human aspects of the design and use of computing systems the papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas

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The Mystique of the Half-Power Frequency: Unpacking the Low-Pass Filter

Ever wondered how your speakers manage to keep the booming bass separate from the delicate high notes? Or how your internet router isolates the high-frequency noise from your precious data stream? The answer, often hidden in the technical jargon, lies in the humble low-pass filter, and specifically, its defining characteristic: the half-power frequency. This isn't just some abstract concept confined to engineering textbooks; it's the bedrock of countless technologies shaping our everyday lives. Let's dive into the fascinating world of half-power frequencies and unravel their significance.

1. What Exactly Is the Half-Power Frequency?

The half-power frequency, also known as the cutoff frequency (f_c) or -3dB frequency, is the frequency at which the output power of a low-pass filter is reduced to half its maximum value. Think of it as the filter's "point of diminishing returns." Before this frequency, the filter allows signals to pass through relatively unimpeded. Beyond f_c , the filter starts significantly attenuating (weakening) the signal. The "half-power" designation comes from the fact that a halving of power corresponds to a reduction in voltage by a factor of $\sqrt{2}$ (approximately 1.414), or about -3dB on a logarithmic decibel scale. This -3dB point is a convenient and widely used standard for characterizing filter performance. Imagine a simple audio amplifier. A low-pass filter might be used to remove high-frequency hiss or unwanted noise. The half-power frequency defines the point where the amplifier starts to significantly reduce the intensity of these unwanted high frequencies. Setting this frequency appropriately allows for a clean, clear audio signal.

2. Understanding the Filter's Response: Roll-off and Order

The way a filter attenuates signals beyond the half-power frequency is described by its "roll-off." A steeper roll-off indicates a more abrupt transition from passband (frequencies below f_c) to stopband (frequencies above f_c). The steepness of the roll-off is directly related to the filter's order. Higher-order filters have steeper roll-offs, meaning they more effectively attenuate unwanted frequencies. For instance, a first-order low-pass filter exhibits a roll-off of -20dB per decade (or -6dB per octave), meaning the output power decreases by a factor of 10 for every tenfold increase in frequency beyond f_c . A second-order filter has a steeper roll-off of -40dB per decade. Choosing the appropriate filter order depends on the application. A simple audio application might use a first-order filter, while a complex signal processing system might require a higher-order filter for precise frequency separation.

3. Real-World Applications: From Audio to Telecommunications

The applications of low-pass filters are remarkably diverse. In audio engineering, they are essential for shaping the tonal balance of instruments and preventing unwanted frequencies from overloading speakers. Consider a subwoofer; a low-pass filter ensures that only the low-frequency bass signals are directed to the subwoofer, preventing damage and ensuring clear sound reproduction. In telecommunications, low-pass filters play a crucial role in preventing signal interference. They are used to isolate different frequency bands in radio and television broadcasting, ensuring clean reception. Similarly, they are vital in data transmission, filtering out noise and preventing crosstalk between different channels. Even in medical imaging, sophisticated low-pass filters help reduce image noise and enhance clarity.

4. Designing and Implementing Low-Pass Filters

Low-pass filters can be implemented using various components, most commonly resistors and capacitors (RC filters) or inductors and capacitors (RLC filters). The choice of components and their values determine the half-power frequency. Simple RC filters are easy to design and implement, while RLC filters offer greater flexibility and sharper roll-offs. Modern applications frequently utilize integrated circuits (ICs) that incorporate sophisticated filter designs. Software tools are also widely used for simulating filter performance and optimizing design parameters.

Conclusion

The half-power frequency is not merely a theoretical concept; it's the cornerstone of effective signal processing. Understanding this key parameter allows engineers to design and implement low-pass filters that precisely shape the frequency response of signals in countless applications, from crisp audio reproduction to reliable data communication. Mastering the principles of half-power frequency design is essential for anyone involved in signal processing and electronics.

Expert FAQs:

1. How does the Q-factor affect the half-power frequency in a low-pass filter? The Q-factor primarily affects the filter's sharpness of resonance near the cutoff frequency, not the cutoff frequency itself. A high-Q filter will exhibit a sharper transition around f_c , whereas a low-Q filter will have a more gradual transition. 2. Can we design a low-pass filter with a perfectly sharp cutoff at f_c ? No. All real-world filters exhibit a gradual roll-off, although higher-order filters approach a sharper cutoff. An

infinitely sharp cutoff would require an infinitely complex filter. 3. What are the limitations of using simple RC low-pass filters? RC filters have a relatively gentle roll-off and are susceptible to component tolerances impacting the accuracy of the cutoff frequency. They are also less effective at higher frequencies. 4. How do active filters differ from passive filters in terms of half-power frequency design? Active filters utilize operational amplifiers to amplify the signal and achieve higher order filter characteristics with less component sensitivity and improved performance compared to passive RC or RLC filters. However, active filters require power and are more susceptible to noise. 5. What techniques are used to compensate for component tolerances when designing a low-pass filter for a precise half-power frequency? Techniques like using precision components, temperature compensation, and calibration circuits are used to mitigate the effects of component tolerances on the accuracy of the cutoff frequency. Simulation and iterative design refinements are also crucial.

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