

Rounding 2 And 3 Digit Numbers

Warum? Vital Statistics of the United States Big Data Ancient and Medieval Greek Etymology Resonant Scattering and Generation of Waves CRASH COURSE JEE(MAIN) / AIEEE - MATHEMATICS Measurement of Nursing Outcomes, 2nd Edition The Migraine Brain The Complete Songs of Hugo Wolf Carbohydrate Chemistry Global Events and Event Stratigraphy in the Phanerozoic Evolutionary Computation Clinical Disorders of Balance, Posture and Gait, 2Ed Handbook of Grammatical Evolution Principles and Practice of Constraint Programming - CP 2001 I Am Dynamite! Exact Confidence Bounds when Sampling from Small Finite Universes Chemical Reaction Technology Code of Federal Regulations Growth Following Investment and Consumption-Driven Current Account Crises Dialogue and Difference in a Teacher Education Program New Horizons in Patient Safety: Safe Communication Elderly Consumers and Retail Sales Personnel Basics of Matrix Algebra for Statistics with R Fundamentals of Matrix Analysis with Applications Tracing Global Democracy Human Performance Improvement Figures in the Shadows Lexicon Zu Shakespeares Werken "When the Morning Stars Sang" Financial Administration The Organ The Figures of Edgar Allan Poe Power BI Data Analysis and Visualization English Pronunciation for Speakers of Spanish Proceedings of the XV Symposium Neuroradiologicum Positive Psychology and You Psychopharmacology Bulletin Elementary Probability Theory with Stochastic Processes Membranes Robert Schumann Balamurugan Balusamy Arnaud Zucker Lutz Angermann V&S EDITORIAL BOARD Louise Sherman Jenkins, PhD, RN Elaine McArdle Richard Stokes Paul Kosma Otto H. Walliser Wellington Santos Adolfo Bronstein Conor Ryan Toby Walsh Sue Prideaux Tommy Wright Dmitry Yu. Murzin Mr. Alexander Klemm Marilyn Johnston-Parsons Annegret Hannawa Julie Johnson-Hillery Nick Fieller Edward Barry Saff Vladimir Biti William J. Rothwell Bart Huelsenbeck Alexander Schmidt Scott C. Jones United States. Department of the Army Douglas Bush Gero Guttzeit Suren Machiraju María de los Ángeles Gómez González Mutsumasa Takahashi Alan Carr K. L. Chung Raz Jelinek

Warum? Vital Statistics of the United States Big Data Ancient and Medieval Greek Etymology Resonant Scattering and Generation of Waves CRASH COURSE JEE(MAIN) / AIEEE - MATHEMATICS Measurement of Nursing Outcomes, 2nd Edition The Migraine Brain The Complete Songs of Hugo Wolf Carbohydrate Chemistry Global Events and Event Stratigraphy in the Phanerozoic Evolutionary Computation Clinical Disorders of Balance, Posture and Gait, 2Ed Handbook of Grammatical Evolution Principles and Practice of Constraint Programming - CP 2001 I Am

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learn big data from the ground up with this complete and up to date resource from
 leaders in the field big data concepts technology and architecture delivers a
 comprehensive treatment of big data tools terminology and technology perfectly
 suited to a wide range of business professionals academic researchers and
 students beginning with a fulsome overview of what we mean when we say big data
 the book moves on to discuss every stage of the lifecycle of big data you ll learn
 about the creation of structured unstructured and semi structured data data
 storage solutions traditional database solutions like sql data processing data
 analytics machine learning and data mining you ll also discover how specific
 technologies like apache hadoop sqoop and flume work big data also covers the
 central topic of big data visualization with tableau and you ll learn how to create
 scatter plots histograms bar line and pie charts with that software accessibly
 organized big data includes illuminating case studies throughout the material
 showing you how the included concepts have been applied in real world settings
 some of those concepts include the common challenges facing big data technology
 and technologists like data heterogeneity and incompleteness data volume and
 velocity storage limitations and privacy concerns relational and non relational
 databases like rdbms nosql and newsql databases virtualizing big data through
 encapsulation partitioning and isolating as well as big data server virtualization

apache software including hadoop cassandra avro pig mahout oozie and hive the big data analytics lifecycle including business case evaluation data preparation extraction transformation analysis and visualization perfect for data scientists data engineers and database managers big data also belongs on the bookshelves of business intelligence analysts who are required to make decisions based on large volumes of information executives and managers who lead teams responsible for keeping or understanding large datasets will also benefit from this book

this volume on greek synchronic etymology offers a set of papers evidencing the cultural significance of etymological commitment in ancient and medieval literature the four sections illustrate the variety of approaches of the same object which for greek writers was much more than a technical way of studying language contributions focus on the functions of etymology as they were intended by the authors according to their own aims 1 philosophical issues addresses the theory of etymology and its explanatory power especially in plato and in neoplatonism 2 linguistic issues discusses various etymologizing techniques and the status of etymology which was criticized and openly rejected by some authors 3 poetical practices of etymology investigates the ubiquitous presence of etymological reflections in learned poetry whatever the genre didactic aetiological or epic 4 etymology and word plays addresses the vexed question of the limit between a mere pun and a real etymological explanation which is more than once difficult to establish the wide range of genres and authors and the interplay between theoretical reflection and applied practice shows clearly the importance of etymology in greek thought

this monograph deals with theoretical aspects and numerical simulations of the interaction of electromagnetic fields with nonlinear materials it focuses in particular on media with nonlinear polarization properties it addresses the direct problem of nonlinear electrodynamics that is to understand the nonlinear behavior in the induced polarization and to analyze or even to control its impact on the propagation of electromagnetic fields in the matter the book gives a comprehensive presentation of the results obtained by the authors during the last decade and put those findings in a broader unified context and extends them in several directions it is divided into eight chapters and three appendices chapter 1 starts from the maxwell s equations and develops a wave propagation theory in plate like media with nonlinear polarizability in chapter 2 a theoretical framework in terms of weak solutions is given in order to prove the existence and uniqueness of a solution of the semilinear boundary value problem derived in the first chapter chapter 3 presents a different approach to the solvability theory of the reduced frequency domain model here the boundary value problem is reduced to finding solutions of a system of one dimensional nonlinear hammerstein integral equations

chapter 4 describes an approach to the spectral analysis of the linearized system of integral equations chapters 5 and 6 are devoted to the numerical approximation of the solutions of the corresponding mathematical models chapter 7 contains detailed descriptions discussions and evaluations of the numerical experiments finally chapter 8 gives a summary of the results and an outlook for future work

this book is meant to be a quick refresher for jee main aieee aspirants with the aim and scope of providing a comprehensive study package for aspirants of jee main aieee this crash course focuses less on theory and more on concepts formulae and tips this is supported by plenty of practice problems based on the latest formats structure and syllabus of jee main aieee this is further supplemented by a cd given along with this study kit with fully solved 2012 jee main aieee question paper salient features a based on the latest pattern and syllabus of jee main aieee a solved examples practice problems in each chapter a previous years question papers fully solved a less theory and more concepts formulae and tips a practice cd with fully solved jee main aieee 2012 question paper a plenty of problems for practice a comprehensive holistic revision of the complete syllabus of jee main aieee a in depth analysis of the recent trends of jee main aieee a a quick and efficient study kit for jee main aieee aspirants a facilitates self study a low priced handy book for quick and efficient revision

this is a compendium of over 30 tools for the measurement of professional and educational outcomes in nursing it is a second edition of the award winning series of books on measuring outcomes in nursing the tools and methods are presented with attention to purpose and utility conceptual basis development testing and reliability and validity assessments major topic areas focus on clinical decision making and performance in education and practice student outcomes and research in most cases the complete measurement instrument is included in the book

a migraine isn't just a headache it is a neurological disease affecting one in five women one in twenty men and one in twenty children it's a debilitating complex and chronic condition that manifests in a combination of symptoms that can include excruciating head pain as well as other distinctive physical and emotional effects yet it is also a disease that you can improve and manage as dr carolyn bernstein has discovered in her 17 years as a practicing neurologist dr bernstein explains why migraines happen why they are misdiagnosed and why so few people get the right treatment for them she reveals the latest research that shows that migraine brains share a hypersensitivity to stimuli and are more likely to experience a cascade of neurological reactions that cause common migraine symptoms this breakthrough medical knowledge makes treatment and recovery possible with new migraine

specific drugs as well as with complementary treatments such as yoga biofeedback and exercise the migraine brain will equip you with the information you need to understand migraines and to help your family and colleagues understand that a migraine isn't just a headache it's a serious yet treatable condition

the complete songs of hugo wolf gathers together for the first time every poem wolf set to music alongside the original german texts are translations by leading lieder expert richard stokes who also provides illuminating commentary the 36 poets set by wolf are each given their own chapter a brief essay on the poet is followed by a note on wolf's connection with the writer extracts from letters that throw light on the songs and convey his mood at the time of composition and the texts and translations short biographies of all wolf's correspondents flesh out the extraordinary life of this genius this will be an indispensable volume for all lovers of lieder

volumes in the proven synthetic methods series address the concerns many chemists have regarding irreproducibility of synthetic protocols lack of identification and characterization data for new compounds and inflated yields reported in chemical communications trends that have recently become a serious problem exploring carbohydrate chemistry from both the academic and industrial points of view this unique resource brings together useful information into one convenient reference the series is unique among other synthetic literature in the carbohydrate field in that to ensure reproducibility an independent checker has verified the experimental parts involved by repeating the protocols or using the methods featuring contributions from world renowned experts and overseen by a highly respected series editor this latest volume compiles reliable protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences key features explains reliable and tested protocols for the preparation of intermediates for carbohydrate synthesis offers a unique resource in glycosciences compiling useful information in one reference presents protocols that are of wide use to a broad range of readers in the carbohydrate field and the life sciences including undergraduates taking carbohydrate workshops explores synthetic carbohydrate chemistry from both the academic and industrial points of view guarantees the reader a good clean reproducible experiment

the existence of rapid and even catastrophic turnovers within the phanerozoic ecosystems has been discussed controversially for more than 170 years since 1980 this discussion has become even more intensive after the hypothesis of alvarez explaining the end cretaceous mass extinction as the result of a huge asteroid impact on the earth this theory stimulated several thousand papers and is still controversial the international research programme on global biological events in

earth history attempts to bring the discussion back to the facts by using multidisciplinary investigations of the major phanerozoic events the results of an international group of experts are presented giving a wealth of information and a thorough discussion of the causes of the various global events

this book presents several recent advances on evolutionary computation specially evolution based optimization methods and hybrid algorithms for several applications from optimization and learning to pattern recognition and bioinformatics this book also presents new algorithms based on several analogies and metafores where one of them is based on philosophy specifically on the philosophy of praxis and dialectics in this book it is also presented interesting applications on bioinformatics specially the use of particle swarms to discover gene expression patterns in dna microarrays therefore this book features representative work on the field of evolutionary computation and applied sciences the intended audience is graduate undergraduate researchers and anyone who wishes to become familiar with the latest research work on this field

the diagnosis and treatment of the patient with critically impaired walking abilities present the busy physician with a formidable challenge this book provides a comprehensive account of the various balance posture and gait disorders and of the methods for their effective read more management the text is divided into five sections dealing wi

this handbook offers a comprehensive treatise on grammatical evolution ge a grammar based evolutionary algorithm that employs a function to map binary strings into higher level structures such as programs ge s simplicity and modular nature make it a very flexible tool since its introduction almost twenty years ago researchers have applied it to a vast range of problem domains including financial modelling parallel programming and genetics similarly much work has been conducted to exploit and understand the nature of its mapping scheme triggering additional research on everything from different grammars to alternative mappers to initialization the book first introduces ge to the novice providing a thorough description of ge along with historical key advances two sections follow each composed of chapters from international leading researchers in the field the first section concentrates on analysis of ge and its operation giving valuable insight into set up and deployment the second section consists of seven chapters describing radically different applications of ge the contributions in this volume are beneficial to both novices and experts alike as they detail the results and researcher experiences of applying ge to large scale and difficult problems topics include grammar design bias in ge mapping in ge theory of disruption in ge structured ge geometric semantic ge ge and semantics multi and many core heterogeneous

parallel ge comparing methods to creating constants in ge financial modelling with ge synthesis of parallel programs on multi cores design architecture and engineering with ge computational creativity and ge ge in the prediction of glucose for diabetes ge approaches to bioinformatics and system genomics ge with coevolutionary algorithms in cybersecurity evolving behaviour trees with ge for platform games business analytics and ge for the prediction of patient recruitment in multicentre clinical trials

this book constitutes the refereed proceedings of the 7th international conference on principles and practice of constraint programming cp 2001 held in paphos cyprus in november december 2001 the 37 revised full papers 9 innovative applications presentations and 14 short papers presented were carefully reviewed and selected from a total of 135 submissions all current issues in constraint processing are addressed ranging from theoretical and foundational issues to advanced and innovative applications in a variety of fields

the times biography of the year winner of the hawthornden prize 2019 shortlisted for the hwa non fiction prize 2019 longlisted for the rathbones folio prize 2019 longlisted for the cundhill history prize 2019 friedrich nietzsche s work blasted the foundation of western thinking the death of god the Übermensch and the slave morality permeate our culture high and low and yet he is one of history s most misunderstood philosophers nietzsche himself thought that all philosophy was autobiographical and in this myth shattering book sue prideaux brings readers into the world of a brilliant eccentric and deeply troubled man illuminating the events and people that shaped his life and work from his placid devoutly christian upbringing overshadowed by the mysterious death of his father through his lonely philosophising on high mountains to the horror and pathos of his final descent into madness prideaux explores nietzsche s intellectual emotional and spiritual life with insight and sensitivity the book is studded with unforgettable portraits of the people who were most important to him including richard and cosima wagner lou salomé the femme fatale who broke his heart and his rabidly nationalist and anti semitic sister elizabeth who betrayed him by manipulating his texts and putting them to infinite misuse at the hands of the nazis today nietzsche s ideas continue to be adopted by both the left and the right i am dynamite is the essential biography for anyone seeking to understand the philosopher who foresaw and sought solutions to our own troubled times

there is a very simple and fundamental concept to much of probability and statistics that can be conveyed using the following problem problem assume a finite set universe of n units where a of the units have a particular attribute the value of n is known while the value of a is unknown if a proper subset sample of size n is

selected randomly and a of the units in the subset are observed to have the particular attribute what can be said about the unknown value of a the problem is not new and almost anyone can describe several situations where a particular problem could be presented in this setting some recent references with different focuses include cochrane 1977 williams 1978 hajek 1981 stuart 1984 cassel samdal and wretman 1977 and johnson and kotz 1977 we focus on confidence interval estimation of a several methods for exact confidence interval estimation of a exist buonaccorsi 1987 and peskun 1990 and this volume presents the theory and an extensive table for one of them one of the important contributions in neyman 1934 is a discussion of the meaning of confidence interval estimation and its relationship with hypothesis testing which we will call the neyman approach in chapter 3 and following neyman s approach for simple random sampling without replacement we present an elementary development of exact confidence interval estimation of a as a response to the specific problem cited above

the book discusses the sciences of operations converting raw materials into desired products on an industrial scale by applying chemical transformations and other industrial technologies basics of chemical technology combining chemistry physical transport unit operations and chemical reactors are thoroughly prepared for an easy understanding

special edition of the federal register containing a codification of documents of general applicability and future effect with ancillaries

current account deficits imply increasing liabilities to the rest of the world external sustainability then depends on whether these can be met in the future without defaulting i e normally through trade account surpluses to run such surpluses without a fall in consumption capital inflows should be used to increase future output this paper tentatively finds that current account deficits reversals that follow investment booms are marked by better growth performance than those following consumption booms it also shows that many recent large current account deficits have been predominantly the result of consumption or non productive investment booms

this book is a longitudinal study of a 10 year experimental teacher education program follow up studies and writing continued for 6 years after the program closed this case study describes a search for effective and socially just practices within a long term reform initiative intended to prepare teachers for urban schools the program was run through a professional development school a collaboration between a university program and a diverse group of practicing teachers and the book was written collaboratively by many of the participants faculty mentor

teachers doctoral students and teacher candidates graduates there are few longitudinal studies of teacher education programs especially ones that focus on what was learned and told by those who did the learning the narratives here are rich diverse and multivocal they capture the complexity of a reform initiative conducted within a democratic context it s difficult messy and as varied as is democracy itself the program was framed by a sociocultural perspective and the focus was on learning through difference dialogue across difference which is more than just talk was both the method for doing research and the means for learning the program described here began in the ferment of teacher education reform in the early 1990s responding to the critics of the mid 1980s and this account of it is finished at a time when teacher education is again under attack from a different direction criticized earlier for being too progressive teacher education is now seen as too conservative the longitudinal results of this program show high retention rates and ground the argument that quality teacher preparation programs for teaching in urban schools may well be cost effective as well as provide increased student learning this is counter to the current move to shorten teacher preparation programs at a time of low teacher retention in our under resourced urban schools the book does not advocate a model for teacher education but it aims to provide principles for practice that include school university collaboration democratic dialogue across differences and inquiry as a way to guide reform

this case studies book is an indispensable resource for educators students and practitioners of nursing it is innovative in its application of lessons from the communication sciences to common challenges in the delivery of safe patient care the authors apply basic tenets of human communication to the context of nursing to provide a foundation for practices that can advance the safety and quality of care the cases which describe close calls and adverse events are organized along the continuum of healthcare delivery providing quick access to solutions in commonly encountered care situations each case is accompanied by a discussion of how skillful communication can be key to preventing and recovering from errors and adverse events thought provoking discussion questions and references for further reading make this book a valuable reference for nursing educators students and practitioners across the world

originally published in 1997 based around the author s observations and experiences in the fashion retailing industry and later dissertation research this study looks at the attitudes of retailers towards the elderly the aim of the research presented is to challenge stereotypes suggest practical ways in which improve service for the aging population and identify areas where retailers could improve customer service across all consumer groups as well as the older age groups

a thorough guide to elementary matrix algebra and implementation in r basics of matrix algebra for statistics with r provides a guide to elementary matrix algebra sufficient for undertaking specialized courses such as multivariate data analysis and linear models it also covers advanced topics such as generalized inverses of singular and rectangular matrices and manipulation of partitioned matrices for those who want to delve deeper into the subject the book introduces the definition of a matrix and the basic rules of addition subtraction multiplication and inversion later topics include determinants calculation of eigenvectors and eigenvalues and differentiation of linear and quadratic forms with respect to vectors the text explores how these concepts arise in statistical techniques including principal component analysis canonical correlation analysis and linear modeling in addition to the algebraic manipulation of matrices the book presents numerical examples that illustrate how to perform calculations by hand and using r many theoretical and numerical exercises of varying levels of difficulty aid readers in assessing their knowledge of the material outline solutions at the back of the book enable readers to verify the techniques required and obtain numerical answers avoiding vector spaces and other advanced mathematics this book shows how to manipulate matrices and perform numerical calculations in r it prepares readers for higher level and specialized studies in statistics

an accessible and clear introduction to linear algebra with a focus on matrices and engineering applications providing comprehensive coverage of matrix theory from a geometric and physical perspective fundamentals of matrix analysis with applications describes the functionality of matrices and their ability to quantify and analyze many practical applications written by a highly qualified author team the book presents tools for matrix analysis and is illustrated with extensive examples and software implementations beginning with a detailed exposition and review of the gauss elimination method the authors maintain readers interest with refreshing discussions regarding the issues of operation counts computer speed and precision complex arithmetic formulations parameterization of solutions and the logical traps that dictate strict adherence to gauss s instructions the book heralds matrix formulation both as notational shorthand and as a quantifier of physical operations such as rotations projections reflections and the gauss reductions inverses and eigenvectors are visualized first in an operator context before being addressed computationally least squares theory is expounded in all its manifestations including optimization orthogonality computational accuracy and even function theory fundamentals of matrix analysis with applications also features novel approaches employed to explicate the qr singular value schur and jordan decompositions and their applications coverage of the role of the matrix exponential in the solution of linear systems of differential equations with constant coefficients chapter by chapter summaries review problems technical writing

exercises select solutions and group projects to aid comprehension of the presented concepts fundamentals of matrix analysis with applications is an excellent textbook for undergraduate courses in linear algebra and matrix theory for students majoring in mathematics engineering and science the book is also an accessible go to reference for readers seeking clarification of the fine points of kinematics circuit theory control theory computational statistics and numerical algorithms

focused on the recently hotly debated topic at the crossroads of various human and social sciences this book investigates the emergence of the cosmopolitan idea of literature and its impact on the reconfiguration of the european and non european political spaces the birthplace of this idea is its designers traumatic experience as induced by the disconcerting condition of their abode the thesis is that the eighteenth and nineteenth century s cosmopolitan projects that grow out of such deep frustrations trace the twentieth century s global democracy this hidden origin of cosmopolitan projects dismantles the usual european representation of modernization as universal progress as myopic rather than being a generous action of prominent subjects such as voltaire kant and goethe or bakhtin derrida and deleuze cosmopolitanism is an enforced reaction of the instances dispossessed by injury that search for the ways of healing it yet as soon as their remedy establishes itself as the ground for universal reconciliation it risks suppressing other s trauma i e turns from politics into a police articulating the author s position in the recent debates on the structure of democracy the epilogue suggests an alternative strategy

today s dynamic organizations must achieve positive results in record time a challenge that requires managers to avoid problems before they arise and to solve these issues quickly human performance improvement hpi is a powerful tool that can be used to help build intellectual capital establish and maintain a high performance workplace enhance profitability and encourage productivity as well as increase return on equity and improved safety written by a group of highly respected authors in the field this book will show you how to discover and analyze performance gaps plan for future improvements in human performance design and develop cost effective interventions to close performance gaps

the collection of the elder seneca assembles quotations from scores of declaimers over a period spanning sixty years from the augustan age through the early decades of the empire a view is offered onto a literary scene for this critical period of roman letters that is numerously populated highly interactive and less dominated by just a few canonical authors despite this potential modern readings have often lumped declaimers together en masse and organizational principles

basic to seneca's collection remain overlooked this volume attempts to hear the individual speech of declaimers by focusing on two speakers arellius fuscus rhetor to ovid and papirius fabianus teacher of the younger seneca a key organizing principle informing both the collection and the practice of declamation was the shared locus a short passage defined by verbal and argumentative ingredients that gained currency among declaimers study of the operation of the shared locus carries several advantages 1 we appreciate distinctions between declaimers 2 we recognize shared passages as a medium of communication and 3 the shared locus emerges as a community resource explaining deep seated connections between declamation and literary works

during a moment of exponential growth and change in the fields of biblical and ancient near eastern studies it is an opportune time to take stock of the state wisdom and wisdom literature with twenty three essays honoring the consummate weisheitslehrer professor choon leong seow vanderbilt buffington cupples chair in divinity and distinguished professor of hebrew bible at vanderbilt university this festschrift is tightly focused around wisdom themes and all of the essays are written by senior scholars in the field they represent not only the great diversity of approaches in the field of wisdom and wisdom literature but also the remarkable range of interests and methods that have characterized professor seow's own work throughout the decades including the theology of the wisdom literature the social world of ecclesiastes the history of consequences of the book of job the poetry of the psalms and northwest semitic inscriptions just to name a few

the encyclopedia of organ includes articles on the organ family of instruments including famous players composers instrument builders the construction of the instruments and related terminology it is the first complete a z reference on this important family of keyboard instruments the contributors include major scholars of music and musical instrument history from around the world

the figures of edgar allan poe is the first study to address the rhetorical dimensions of poe's textual and discursive practices it argues that poe is a figure and figurer of the emergence of the modern understanding of literature in the early nineteenth century that resulted from the birth of the romantic author and the so called death of rhetoric building on accounts of poe as a skilled navigator of american antebellum print culture gero guttzeit reinterprets poe as representative of the vital role that transatlantic rhetoric played in antebellum literature he investigates rhetorical figures of the author in poe's critical writings tales poems and lectures to give a new account of poe's significance for antebellum literary culture in so doing he also proposes a general rhetorical theory of theoretical poetical and performative figures of the author beyond poe studies the book intervenes in

current debates on the romantic origins of the modern author and demonstrates that rhetorical theory offers new ways of exploring authorship beyond the nineteenth century

power bi data analysis and visualization provides a roadmap to vendor choices and highlights why microsoft s power bi is a very viable cost effective option for data visualization the book covers the fundamentals and most commonly used features of power bi but also includes an in depth discussion of advanced power bi features such as natural language queries embedding power bi dashboards and live streaming data it discusses real solutions to extract data from the erp application microsoft dynamics crm and also offers ways to host the power bi dashboard as an azure application extracting data from popular data sources like microsoft sql server and open source postgresql authored by microsoft experts this book uses real world coding samples and screenshots to spotlight how to create reports embed them in a webpage view them across multiple platforms and more business owners it professionals data scientists and analysts will benefit from this thorough presentation of power bi and its functions

english pronunciation for speakers of spanish fills a gaping hole in the market for books on english phonetics and pronunciation because it not only combines theoretical issues and applications to practice but it also adopts a contrastive english spanish approach to better suit the needs of spanish speaking learners of english ssle enabling them to build gradually on the knowledge gained in each chapter the book covers the key concepts of english phonetics and phonology in seven chapters written in an accessible and engaging style 1 phonetics and phonology 2 the production and classification of speech sounds 3 vowels and glides 4 consonants 5 segment dynamics aspects of connected speech 6 beyond the segment stress and intonation 7 predicting pronunciation from spelling and vice versa features in text audio illustrations as well as over a hundred written and audio exercises with corresponding keys and different kinds of artwork tables figures illustrations spectrograms etc classic readings in the discipline in the further reading section of each chapter highlights the phonetic contrasts and specific cues that are more important to aid comprehension in english and offers guidelines on correct pronunciation habits to help ssle sound as close as possible to native english the book s companion website epss multimedia lab can be used on computers smartphones and tablets and is useful for the self taught student and the busy lecturer alike the website of the epss multimedia lab can be accessed here uscgalmultimlab.com features of the website a complete sound bank defining and illustrating the sounds of english rp as compared with those of peninsular spanish written definitions and animated diagrams videos and original recordings by native speakers of english and spanish showing the articulation of each sound alongside

its most common spellings as well as pronunciation practice for individual words and whole sentences a comprehensive selection of over a hundred written and audio exercises with their keys for practice both at home or in the language lab audio files corresponding to the audio illustrations given in the written book a repository of useful resources by topics and a list of online glossaries and pronunciation dictionaries

since 1939 the symposium neuroradiologicum has been held every 4 years in various cities throughout the world great neuroradiologists such as taveras du boulay greitz lindgren and dichiro have been among the presidents of the previous symposia the xv symposium neuroradiologicum was held in kumamoto from 25 september through 1 october 1994 more than 1 200 participants gathered to discuss the most recent developments including interventional neuroradiology functional imaging mri contrast media new techniques in mri iodinated contrast media and other advances the communications are presented in this book special lectures held by drs dillon harwood nash and picard are included this book covers the most recent advances in neuroradiology

this broad and innovative self development guide shows readers how they can use scientific findings from contemporary positive psychology to enhance their lives containing dozens of practical exercises and real life examples it helps bring positive psychology findings from the lab into day to day life divided into six parts and covering a wide array of themes this book is designed to help people with or without mental health problems enhance their well being it answers questions like what is well being what are the main determinants of well being and how can we sustain it there are also chapters on physical exercise progressive muscle relaxation and mindfulness meditation savouring pleasures creative solution finding and developing compassionate relationships this non technical and highly accessible book will be of interest to those from all backgrounds with an interest in self development as well as mental health workers and related professionals

in the past half century the theory of probability has grown from a minor isolated theme into a broad and intensive discipline interacting with many other branches of mathematics at the same time it is playing a central role in the mathematization of various applied sciences such as statistics operations research biology economics and psychology to name a few to which the prefix mathematical has so far been firmly attached the coming of age of probability has been reflected in the change of contents of textbooks on the subject in the old days most of these books showed a visible split personality torn between the combinatorial games of chance and the so called theory of errors centering in the normal distribution this period ended with the appearance of feller s classic treatise see feller l t in 1950 from the

manuscript of which i gave my first substantial course in probability with the passage of time probability theory and its applications have won a place in the college curriculum as a mathematical discipline essential to many fields of study the elements of the theory are now given at different levels sometimes even before calculus the present textbook is intended for a course at about the sophomore level it presupposes no prior acquaintance with the subject and the first three chapters can be read largely without the benefit of calculus

describes the properties of cellular membranes and their relationship with fundamental biological processes this book provides insight on the chemistry structures model systems and techniques employed for studying membrane properties and processes a major focus is on the prominence of membranes in diverse physiological processes and disease as well as applications of membranes and biomimetic membrane systems in varied disciplines the book aims to illuminate the significance and beauty of membrane science and serve both as an entry point for scholars wishing to embark on membrane research as well as scientists already working in the field

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Two-Wire Transmission Lines: A Comprehensive Q&A

Introduction: Q: What is a two-wire transmission line, and why is it relevant? A: A two-wire transmission line is a simple yet crucial element in electrical engineering, consisting of two parallel conductors used to transmit electrical signals or power over a distance. Its relevance stems from its widespread use in various applications, from low-frequency power distribution (e.g., household wiring) to high-frequency communication systems (e.g., telephone lines, antenna feeds). Understanding its characteristics is vital for designing efficient and reliable systems. Unlike more complex transmission lines, its simplicity allows for relatively straightforward analysis.

I. Transmission Line Characteristics: Q: What are the key parameters defining a two-wire transmission line's performance? A: Several key parameters determine a two-wire transmission line's behavior:

- Characteristic Impedance (Z_0):** This represents the impedance "seen" by a signal propagating along the line. It's crucial for matching impedance to minimize reflections and maximize power transfer. It depends on the conductors' geometry, spacing, and the dielectric material between them. For a two-wire line in air, Z_0 is approximately $276 \log_{10}(2D/d)$, where D is the distance between conductor centers and d is the conductor diameter.
- Propagation Constant (γ):** This complex number describes how the signal's amplitude and phase change as it travels along the line. It's composed of the attenuation constant (α), representing signal loss, and the phase constant (β), representing phase shift per unit length. Losses are primarily due to conductor resistance and dielectric losses.
- Velocity of Propagation (v_p):** This represents the speed at which the signal travels along the line. It's related to the speed of light in the dielectric material between the conductors.
- Line Length:** The physical length of the line significantly impacts its behavior, particularly at higher frequencies where the wavelength becomes comparable to or smaller than the line length. Short lines behave differently than long lines.

II. Types and Applications: Q: What are some common types and applications of two-wire transmission lines? A: Two-wire lines come in various forms, tailored to specific applications:

- Parallel-Wire Lines:** The simplest form, with two parallel wires separated by an insulator (air, plastic, etc.). Used extensively in low-frequency applications like household wiring and some audio equipment.
- Twisted-Pair Lines:** Two wires twisted together to reduce electromagnetic interference (EMI) and improve signal quality. Widely used in telecommunications (e.g., telephone lines,

Ethernet cables) and data transmission. The twisting helps cancel out induced noise. Lecher Lines: Specifically designed for high-frequency measurements, often used in determining the wavelength of radio waves. They typically utilize parallel wires with adjustable length. III. Signal Propagation and Reflections: Q: How do signals propagate on a two-wire transmission line, and what are reflections? A: Signals propagate as electromagnetic waves travelling along the conductors. The speed and characteristics are governed by the parameters mentioned earlier. Reflections occur when the impedance at the end of the line doesn't match the characteristic impedance (Z_0). This mismatch creates reflected waves that travel back toward the source, potentially causing signal distortion and power loss. Terminating the line with its characteristic impedance (matched termination) eliminates reflections. Real-world example: Consider a long telephone line. If the line isn't properly terminated, speech signals can reflect back, leading to echoes and reduced clarity. IV. Design Considerations: Q: What factors need to be considered when designing a two-wire transmission line? A: Careful consideration is needed for: Conductor material and diameter: Affecting both resistance losses and characteristic impedance. Insulator material and spacing: Influencing dielectric losses, capacitance, and characteristic impedance. Line length and frequency: Determining the significance of signal attenuation and reflections. Impedance matching: Crucial for efficient power transfer and minimizing reflections, often achieved through the use of matching networks or terminators. Shielding: Protecting the line from external electromagnetic interference, often implemented with braided shielding or conductive tubes. V. Conclusion: Two-wire transmission lines, despite their apparent simplicity, are fundamental components in various electrical systems. Understanding their characteristic impedance, propagation constant, and the impact of reflections is critical for designing efficient and reliable communication and power transmission systems. Choosing the appropriate type of two-wire line and employing proper design considerations, such as impedance matching, significantly impacts the performance and reliability of the entire system. FAQs: 1. Q: What are the limitations of two-wire transmission lines? A: They are susceptible to EMI, have relatively high attenuation at higher frequencies, and can be bulky for long distances. Higher-order modes can also be a problem at higher frequencies. 2. Q: How do I calculate the characteristic impedance of a specific two-wire line? A: The formula varies slightly based on the geometry and dielectric constant. For a parallel-wire line in air, the approximate formula is $276 \log_{10}(2D/d)$. More precise calculations require considering the dielectric constant of the insulation. 3. Q: How can I minimize reflections on a two-wire line? A: The primary method is impedance matching – terminating the line with a resistor equal to its characteristic impedance. This absorbs the incident wave and prevents reflections. 4. Q: What is the difference between a balanced and unbalanced two-wire transmission line? A: A balanced line has equal impedance to ground from

each conductor, while an unbalanced line has one conductor grounded (e.g., a coaxial cable). Balanced lines offer better noise immunity. 5. Q: Can two-wire transmission lines be used for high-power applications? A: While possible, the efficiency decreases significantly at high power due to resistive losses. Higher-capacity lines (e.g., three-phase power lines) are generally preferred for such applications.

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