

Ces2019

Critical Approaches to Climate Change and Civic Action
Lateral Access Minimally Invasive Spine Surgery
Mathematics for Machine Learning
Spirals and Vortices
Smart Wireless Sensing
Leçons de vie
Brownian Motion, Martingales, and Stochastic Calculus
Virtuelle Realität und Transzendenz
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this well illustrated textbook is the first comprehensive and authoritative source of information on minimally invasive lateral access spine surgery it covers all aspects of the subject including patient selection approach and monitoring techniques soft tissue management application in a variety of pathologies technical nuances and the prevention and management of complications in addition current controversies in the field are discussed and the biomechanics of lateral spinal reconstruction the physiologic benefits and cost implications are explained as use of the lateral approach in spinal surgery has become more popular so its diversity and complexity have increased nevertheless publications

devoted entirely to the technique are lacking and lateral access minimally invasive spine surgery is designed to fill this vacuum written by the world's experts on the topic it will be an excellent resource for both beginning and experienced surgeons

distills key concepts from linear algebra geometry matrices calculus optimization probability and statistics that are used in machine learning

this richly illustrated book explores the fascinating and ubiquitous occurrence of spirals and vortices in human culture and in nature spiral forms have been used as elements in the arts for thousands of years whereas their role in nature and science from dna and sea shells to galaxies is still a topic of investigation in numerous fields following an introduction to the cultural history of spiral forms the book presents contributions from leading experts who describe the origins mechanisms and dynamics of spirals and vortices in their special fields as a whole the book provides a valuable source of information while also taking the reader on an aesthetic and scientific journey through the world of spiral forms

perception of human beings has evolved from natural biosensor to powerful sensors and sensor networks in sensor networks trillions of devices are interconnected and sense a broad spectrum of contexts for human beings laying the foundation of internet of things iot however sensor technologies have several limitations relating to deployment cost and usability which render them unacceptable for practical use consequently the pursuit of convenience in human perception necessitates a wireless sensorless and contactless sensing paradigm recent decades have witnessed rapid developments in wireless sensing technologies in which sensors detect wireless signals such as acoustic light and radio frequency originally designed for data transmission or lighting by analyzing the signal measurements on the receiver end channel characteristics can be obtained to convey the sensing results currently significant effort is being devoted to employing the ambient wi fi rfid bluetooth zigbee and television signals for smart wireless sensing eliminating the need for dedicated sensors and promoting the prospect of the artificial intelligence of things aiot this book provides a comprehensive and in depth discussion of wireless sensing technologies specifically with a particular focus on wi fi based sensing for understanding human behavior it adopts a top down approach to introduce three key topics human detection localization and activity recognition presenting the latest advances in smart wireless sensing based on an extensive review of state of the art research it promotes the further development of this area and also contributes to interdisciplinary research

on m a parlé de philosophie on m a parlé de morale chaque fois j ai imaginé l incidence scolaire et chaque fois j ai pensé que la référence était trop présomptueuse pour la recherche entreprise car souvent cette recherche n est qu une simple constatation la vie avance déroule sa trame impose ses exigences et si parfois elle semble sourire dans l immense majorité des cas elle n est que le censeur sévère de nos erreurs de nos fautes et de notre présomption pour en revenir à ma toute petite expérience j ai parcouru une grande partie d un siècle chargé en évènements d une importance mondiale deux guerres deux idéologies mortifères qui ont demandé des décades avant de disparaître l apparition de mondes nouveaux la disparition d une civilisation venue du temps et les tâtonnements pour trouver un autre équilibre l envahissement de la pollution les migrations qui commencent avant qu un nouveau monde ne vienne chasser l ancien en somme la destruction accélérée d une terre devenue toute petite et qui était un merveilleux mouvement d horlogerie dont l homme entrevoit à peine le début de la complexité une terre qui demain chassera l intrus un livre réaliste tout simplement

this book offers a rigorous and self contained presentation of stochastic integration and stochastic calculus within the general framework of continuous semimartingales the main tools of stochastic calculus including itô s formula the optional stopping theorem and girsanov s theorem are treated in detail alongside many illustrative examples the book also contains an introduction to markov processes with applications to solutions of stochastic differential equations and to connections between brownian motion and partial differential equations the theory of local times of semimartingales is discussed in the last chapter since its invention by itô stochastic calculus has proven to be one of the most important techniques of modern probability theory and has been used in the most recent theoretical advances as well as in applications to other fields such as mathematical finance brownian motion martingales and stochastic calculus provides a strong theoretical background to the reader interested in such developments beginning graduate or advanced undergraduate students will benefit from this detailed approach to an essential area of probability theory the emphasis is on concise and efficient presentation without any concession to mathematical rigor the material has been taught by the author for several years in graduate courses at two of the most prestigious french universities the fact that proofs are given with full details makes the book particularly suitable for self study the numerous exercises help the reader to get acquainted with the tools of stochastic calculus

was einmal jenseits der realität schien ist mehr und mehr teil der alltagserfahrung geworden online und offline sind nicht mehr trennend zu denken virtuelle realität

vr findet einsetz in verschiedensten bereichen wirtschaft wissenschaft militär bildung auch für den religionsunterricht sowie in theologischen studiengängen lassen sich entsprechende szenarien entwickeln der band vermisst erstmalig den status quo theologischer und pädagogischer forschung zur vr im dialog mit weiteren angrenzenden disziplinen und diskutiert ihn anhand mediendidaktischer einblicke aus schulen und hochschule

what do the movements of molecules and the migration of humans have in common how does the functionality of our brain tissue resemble the flow of traffic in new york city how can understanding the spread of ideas rumors and languages help us tackle the spread a pandemic this book provides an illuminating look into these seemingly disparate topics by exploring and expertly communicating the fundamental laws that govern the spreading and diffusion of objects a collection of leading scientists in disciplines as diverse as epidemiology linguistics mathematics and physics discuss various spreading phenomena relevant to their own fields revealing astonishing similarities and correlations between the objects of study be they people particles or pandemics this updated and expanded second edition of an award winning book introduces timely coverage of a subject with the greatest societal impact in recent memory the global fight against covid 19 winner of the 2019 literature prize of the german chemical industry fund and brainchild of the international and long running diffusion fundamentals conference series this book targets an interdisciplinary readership featuring an introductory chapter that sets the stage for the topics discussed throughout each chapter provides ample opportunity to whet the appetite of those readers seeking a more in depth treatment making the book also useful as supplementary reading in appropriate courses dealing with complex systems mass transfer and network theory

alors que cette édition des points forts 2019 était en cours de finalisation nos sociétés en proie à la crise du coronavirus ont eu à affronter des défis sans précédent à la fois sanitaires sociaux et économiques la mission du conseil de l europe est d aider nos États membres à ce que les mesures prises pour combattre cette pandémie ne mettent pas en danger les valeurs communes européennes de démocratie d État de droit et de droits de l homme les fondements de ces valeurs nous sont rappelés par les célébrations des 70 ans de la convention européenne des droits de l homme 2019 l année couverte par ces points forts a été celle du 70e anniversaire du traité de londres de 1949 qui a institué le conseil de l europe depuis lors l europe a vécu des changements substantiels de son paysage politique et économique à commencer par l émergence puis l élargissement de l union européenne le conseil de l europe a conservé son rôle et sa place singulière dans l architecture des institutions

internationales pour autant et comme l illustrent les activités mises en lumière dans cette publication le conseil de l europe et l union européenne travaillent désormais en étroite collaboration et de manière complémentaire dans l intérêt des citoyens européens préface de daniel höltgen directeur de la communication porte parole de la secrétaire générale cette publication présente les travaux menés au cours de l année 2019 par les différents organes et secteurs d activité du conseil de l europe en proposant une sélection de points forts et de réalisations de l organisation

legalization of marijuana is becoming increasingly prominent in the united states and around the world while there is some discussion of the relationship between marijuana and overall health a comprehensive resource that outlines the medical literature for several organ systems as well as non medical societal effects has yet to be seen while all physicians strive to practice evidence based medicine many clinicians aren t aware of the facts surrounding cannabis and are guided by public opinion this first of its kind book is a comprehensive compilation of multiple facets of cannabis recommendation use and effects from a variety of different perspectives comprised of chapters dedicated to separate fields of medicine this evidence based guide outlines the current data or lack thereof as well as the need for further study the book begins with a general overview of the neurobiology and pharmacology of thc and hemp it then delves into various medical concerns that plague specific disciplines of medicine such as psychiatry cardiology gastrointestinal and neurology among others the end of the book focuses on non medical concerns such as public health and safety driving impairment and legal implications comprised of case studies and meta analyses cannabis in medicine an evidence based approach provides clinicians with with a concise evidence based guide to various health concerns related to the use of marijuana by addressing non medical concerns this book is also a useful resource for professionals working in the public health and legal fields

break down the misconceptions of the internet of things by examining the different security building blocks available in intel architecture ia based iot platforms this open access book reviews the threat pyramid secure boot chain of trust and the sw stack leading up to defense in depth the iot presents unique challenges in implementing security and intel has both cpu and isolated security engine capabilities to simplify it this book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network the requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security demystifying internet of things security provides clarity to industry professionals and provides an overview of different security solutions what you ll

learn secure devices immunizing them against different threats originating from inside and outside the network gather an overview of the different security building blocks available in intel architecture ia based iot platforms understand the threat pyramid secure boot chain of trust and the software stack leading up to defense in depth who this book is for strategists developers architects and managers in the embedded and internet of things iot space trying to understand and implement the security in the iot devices platforms

now in its second edition this book focuses on practical algorithms for mining data from even the largest datasets

children in the global south continue to be affected by social disadvantage in our unequal post colonial world order with a focus on working class children in latin america this book explores the challenges of promoting children s rights in a context of decolonization liebel and colleagues give insights into the political lives of children and demonstrate ways in which the concept of children s rights can be made meaningful at the grassroots level looking to the future they consider how collaborative research with children can counteract their marginalization and oppression in society

this international handbook brings together researchers and teachers from 25 countries of the five continents to share their experiences of teaching health promotion in undergraduate and graduate courses related to different health professions chapter authors share teaching methodologies used in classes discuss the competencies students need to learn and indicate research opportunities readers will be provided with real world examples of empowering participatory holistic intersectoral equitable and sustainable teaching learning strategies that aim to improve health and reduce health inequities this handbook was edited by an editorial board formed by 12 members of the international union for health promotion and education iuhpe from seven countries brazil belgium canada israel new zealand taiwan and uk and includes 45 chapters organized in seven thematic sections each one dedicated to a different aspect of the process of teaching and learning health promotion the health promotion curriculum making health promotion relevant to practice pedagogies for health promotion special topics for health promotion health promotion assessment and quality assurance health promotion as a transformational practice students reflections the international handbook of teaching and learning in health promotion practices and reflections from around the world aims to encourage a dialogue between teaching and learning practices carried out locally and the possibilities of replicating these experiences globally recognizing cultural differences and similarities this handbook is intended for a wide range of readers including

education and training providers health professionals and health care students due to its intersectoral and interdisciplinary approach it will also be of interest to teachers and students in other fields of the social sciences such as urban planning social work public policy international relations and population studies

in this book author stephanie katz founding editor of the award winning literary journal 805 lit art shares practical tools and advice for starting successful creative publishing projects publishing benefits libraries by providing high quality content to patrons showcasing local writers and faculty and creating buzz for the library these endeavors can be launched at any type and size of library often for little to no cost libraries publish teaches libraries how to publish literary magazines book review blogs local anthologies picture books library professional journals and even novels you ll learn how to run a writing contest or writer in residence program form community partnerships with other literary organizations find funding navigate legal considerations market your publication and more each chapter contains detailed information on how to start your project including comprehensive checklists recommendations for free software and legal considerations social media strategies as well as tips for facilitating student or teen run projects are also covered if your library wants to start a publishing project this book will be your go to resource

this ibm redpapertm publication introduces and describes the ibm elastic storagetm server as a scalable high performance data and file management solution the solution is built on proven ibm spectrumtm scale technology formerly ibm general parallel file system gpfstm ibm elastic storage servers can be implemented for a range of diverse requirements providing reliability performance and scalability this publication helps you to understand the solution and its architecture and helps you to plan the installation and integration of the environment the following combination of physical and logical components are required hardware operating system storage network applications this paper provides guidelines for several usage and integration scenarios typical scenarios include cluster export services ces integration disaster recovery and multicluster integration this paper addresses the needs of technical professionals consultants technical support staff it architects and it specialists who must deliver cost effective cloud services and big data solutions

this book is open access under a cc by 4 0 license this book presents results relevant in the manufacturing research field that are mainly aimed at closing the gap between the academic investigation and the industrial application in collaboration with manufacturing companies several hardware and software prototypes represent the key outcome of the scientific contributions that can be

grouped into five main areas representing different perspectives of the factory domain

- 1 evolutionary and reconfigurable factories to cope with dynamic production contexts characterized by evolving demand and technologies
- 2 products and processes for sustainable production asking for energy efficiency low environmental impact products and processes
- 3 new production logics sustainable logistics
- 4 factories for the people who need new kinds of interactions between production processes machines and human beings to offer a more comfortable and stimulating working environment
- 5 factories for customized products that will be more and more tailored to the final user's needs and sold at cost effective prices
- 6 high performance factories to yield the due production while minimizing the inefficiencies caused by failures management problems maintenance

this book is primarily targeted to academic researchers and industrial practitioners in the manufacturing domain

a classic treatise that defined the field of applied demand analysis consumer demand in the united states prices income and consumption behavior is now fully updated and expanded for a new generation

consumption expenditures by households in the united states account for about 70 of america's gdp the primary focus in this book is on how households adjust these expenditures in response to changes in price and income

econometric estimates of price and income elasticities are obtained for an exhaustive array of goods and services using data from surveys conducted by the bureau of labor statistics and aggregate consumption expenditures from the national income and product accounts providing a better understanding of consumer demand

practical models for forecasting future price and income elasticities are also demonstrated fully revised with over a dozen new chapters and appendices the book revisits the original houthakker taylor models while examining new material as well such as the use of quantile regression and the stationarity of consumer preference it also explores the emerging connection between neuroscience and consumer behavior integrating the economic literature on demand theory with psychology literature the most comprehensive treatment of the topic to date this volume will be an essential resource for any researcher student or professional economist working on consumer behavior or demand theory as well as investors and policymakers concerned with the impact of economic fluctuations

this book provides analyses with respect to a wide range of contemporary issues from china to eurasia including turkey's foreign policy conflicts in the eastern mediterranean caucasia central asia russia eu migration middle eastern issues current conflicts and influences over global competition energy security and the future of struggles on energy resources the structure of intra state conflicts and foreign terrorist fighters in the study many interesting questions such as whether

china will turn to a maritime great power in the pacific sea possible impacts of china s bri project on global politics the future of the new great game in china s westward politics and possible effects of north south corridor on regional power struggle are also examined

around the world there is mounting evidence that parks and protected areas contribute to a healthy civil society thus increasing the economic importance of cultural and nature based tourism operating at the intersection of business and the environment tourism can improve human health and wellbeing as well as serve as a catalyst for increasing appreciation and stewardship of the natural world while the revenues from nature based activities help to make the case for investing in park and protected area management the impacts they have need to be carefully managed so that visitors do not destroy the natural wonders that attracted them to a destination in the first place this book features contributions from tourism and recreation researchers and practitioners exploring the relationship between tourism hospitality protected areas livelihoods and both physical and emotional human wellbeing the book includes sections focused on theory policy and practice and case studies to inform and guide industry decisions to address real world problems and proactively plan for a sustainable and healthy future

ist die demokratie in deutschland in gefahr welchen beitrag kann bildung leisten um sie zu stärken eine demokratische gesellschaft setzt voraus dass ihre bürgerinnen und bürger von klein auf lernen andere meinungen zu respektieren konflikte konstruktiv zu lösen und sich aktiv in gemeinschaftliche willensbildungsprozesse einzubringen der aktionsrat bildung widmet sich in seinem neuen gutachten der frage wie demokratiebildung in deutschland weiterentwickelt werden kann in einem einleitenden kapitel werden die ursachen und auswirkungen der weltweiten zunahme antidemokratischer tendenzen aus einer interdisziplinären perspektive beleuchtet anschließend wird für alle bildungsphasen der status quo abgebildet welchen stellenwert hat demokratiebildung in den bildungsplänen und in der ausbildung des pädagogischen personals wie steht es um die demokratischen kompetenzen der teilnehmenden im bildungssystem der aktionsrat bildung leitet aus dieser bestandsaufnahme konkrete handlungsempfehlungen ab und richtet diese an die politischen entscheidungsträger

il supplemento 12 di archeologia e calcolatori è dedicato alla storia della ricerca archeologica nell era digitale con particolare riferimento all evoluzione dell editoria elettronica dal 1955 ad oggi nella prima parte del volume l autrice ingénieur de recherche presso il cnrs équipe arscan monde grec et systèmes d

information si sofferma sulla storia delle applicazioni in francia nella seconda metà del xx secolo a partire dalle prime sperimentazioni di classificazione ed automazione dell'analisi documentaria poi sfociate nella realizzazione delle banche dati archeologiche la seconda parte del volume esamina lo sviluppo dell'editoria digitale in archeologia con particolare riferimento ai mutamenti apportati dall'avvento di internet e dal movimento open access attraverso un'attenta valutazione dei siti web di riferimento per la diffusione di monografie e riviste l'analisi si concentra sulle diverse politiche di digitalizzazione e di diffusione online delle pubblicazioni archeologiche i risultati di questa ricognizione sistematica offrono una serie di spunti interessanti per meglio comprendere e soddisfare le esigenze della comunità archeologica

this open access book shows how the politics of migration affect community building in the 21st century drawing on both retrogressive and progressive forms of mobilization it elaborates theoretically and shows empirically how the two master frames of nostalgia and hope are used in local national and transnational settings in and outside conventional forms of doing politics it expands on polarized societal processes and external events relevant for the transformation of european welfare systems and the reproduction of national identities today it evidences the importance of gender in the narrative use of the master frames of nostalgia and hope either as an ideological tool for right wing populist and extreme right retrogressive mobilization or as an essential element of progressive intersectional politics of hope it uses both comparative and single case studies to address different perspectives and by means of various methodological approaches the manner in which the master frames of nostalgia and hope are articulated in the politics of culture welfare and migration the book is organized around three thematic sections whereby the first section deals with right wing populist party politics across europe the second section deals with an articulation of politics beyond party politics by means of retrogressive mobilization and the third and last section deals with emancipatory initiatives beyond party politics as well

this open access book provides a concise explanation of the fundamentals and background of the surround sound recording and playback technology ambisonics it equips readers with the psychoacoustical signal processing acoustical and mathematical knowledge needed to understand the inner workings of modern processing utilities special equipment for recording manipulation and reproduction in the higher order ambisonic format the book comes with various practical examples based on free software tools and open scientific data for reproducible research the book's introductory section offers a perspective on ambisonics spanning from the origins of coincident recordings in

the 1930s to the ambisonic concepts of the 1970s as well as classical ways of applying ambisonics in first order coincident sound scene recording and reproduction that have been practiced since the 1980s as from time to time the underlying mathematics become quite involved but should be comprehensive without sacrificing readability the book includes an extensive mathematical appendix the book offers readers a deeper understanding of ambisonic technologies and will especially benefit scientists audio system and audio recording engineers in the advanced sections of the book fundamentals and modern techniques as higher order ambisonic decoding 3d audio effects and higher order recording are explained those techniques are shown to be suitable to supply audience areas ranging from studio sized to hundreds of listeners or headphone based playback regardless whether it is live interactive or studio produced 3d audio material

written and edited by leading physicians breastfeeding a guide for the medical profession 9th edition offers comprehensive dependable information and guidance in this multifaceted field award winning author and co founder of the academy of breastfeeding medicine dr ruth lawrence and her son dr rob lawrence ensure that you re brought fully up to date on everything from basic data on the anatomical physiological biochemical nutritional immunological and psychological aspects of human lactation to the problems of clinical management of breastfeeding all in a highly readable easily accessible desk reference helps you make appropriate drug recommendations treat conditions associated with breastfeeding and provide thoughtful guidance to the breastfeeding mother according to her circumstances problems and lifestyle includes numerous charts and tables throughout with an emphasis on the scientific chemical and physiological underpinnings of breastfeeding appendices contain additional charts and tables including the complete collection of clinical protocols on breastfeeding and human milk from the academy of breastfeeding medicine features new chapters on breast conditions and their management in the breastfeeding mother breastfeeding and chest feeding for lgbtq families breastfeeding during disasters and establishing a breastfeeding practice or academic department provides significant updates on physiology and biochemistry of lactation medications and herbal preparations in breast milk transmission of infectious disease through breast milk allergy and its relationship with breastfeeding exposure and avoidance premature infants and breastfeeding and practical management of the mother infant nursing couple offers authoritative and fresh perspectives from new associate editors neonatologist dr larry noble obstetrician dr alison stuebe and pediatrician and lactation specialist dr casey rosen carole covers patient centered counseling the cellular composition

of human breast milk microbiota of the breast and human milk and the multifunctional roles of human milk oligosaccharides hmos enhanced ebook version included with purchase your enhanced ebook allows you to access all of the text figures and references from the book on a variety of devices

this monograph records progress in approximation theory and harmonic analysis on balls and spheres and presents contemporary material that will be useful to analysts in this area while the first part of the book contains mainstream material on the subject the second and the third parts deal with more specialized topics such as analysis in weight spaces with reflection invariant weight functions and analysis on balls and simplexes the last part of the book features several applications including cubature formulas distribution of points on the sphere and the reconstruction algorithm in computerized tomography this book is directed at researchers and advanced graduate students in analysis mathematicians who are familiar with fourier analysis and harmonic analysis will understand many of the concepts that appear in this manuscript spherical harmonics the hardy littlewood maximal function the marcinkiewicz multiplier theorem the riesz transform and doubling weights are all familiar tools to researchers in this area

the essential introduction to the principles and applications of feedback systems now fully revised and expanded this textbook covers the mathematics needed to model analyze and design feedback systems now more user friendly than ever this revised and expanded edition of feedback systems is a one volume resource for students and researchers in mathematics and engineering it has applications across a range of disciplines that utilize feedback in physical biological information and economic systems karl Åström and richard murray use techniques from physics computer science and operations research to introduce control oriented modeling they begin with state space tools for analysis and design including stability of solutions lyapunov functions reachability state feedback observability and estimators the matrix exponential plays a central role in the analysis of linear control systems allowing a concise development of many of the key concepts for this class of models Åström and murray then develop and explain tools in the frequency domain including transfer functions nyquist analysis pid control frequency domain design and robustness features a new chapter on design principles and tools illustrating the types of problems that can be solved using feedback includes a new chapter on fundamental limits and new material on the routh hurwitz criterion and root locus plots provides exercises at the end of every chapter comes with an electronic solutions manual an ideal textbook for undergraduate and graduate students indispensable for researchers seeking a self contained resource on control theory

cardiovascular diseases cvds are the number one cause of death and disability globally being the most important public health problem that needs to be tackled as more people die annually from cvds than from any other cause over three quarters of cvd deaths take place in low and middle income countries this book on cardiovascular diseases provides an overview of the global and regional challenges associated with cvds coupled with case studies and theoretical concepts it helps the reader to contextualize cvds in the broader public health system and the administrative aspects of practicing cvd control approaches for improved population health in their local setting key features 1 covers existing and emerging issues in cardiovascular disease epidemiology and prevention 2 has a multidisciplinary approach in content and audience 3 connects with health systems and relevant sustainable development goals 4 provides case studies for enabling readers to understand and apply evidence based solutions to key public health issues 5 has inputs from globally renowned public health experts

the definitive reference in the field for more than 35 years creasy and resnik s maternal fetal medicine provides today s mfm practitioners with authoritative comprehensive guidance on every aspect of this fast changing field the fully revised 9th edition brings you up to date with the latest evidence based guidelines and research as well as the fundamental scientific foundation needed for effective practice helping you minimize complications and ensure the best possible outcomes for your patients renowned experts in obstetrics gynecology and perinatology provide valuable information in every area of complex obstetric care highlighting the most commonly encountered anomalies and providing clear guidelines for obstetric and neonatal management offers comprehensive updates on rapidly changing topics including extensively revised genetic content throughout includes two new chapters maternal and fetal viral infections including covid 19 and sexually transmitted disease covering the epidemiology pathogenesis diagnosis and treatment of individual infectious diseases that may complicate pregnancy contains user friendly features such as numerous diagnostic and treatment algorithms for quick access to current protocols key points at the end of each chapter and counseling pearls with practical guidance on patient consultation features a comprehensive imaging section including a video library to aid in everyday diagnosis shares the expertise of a renowned editorial team including new co editors drs lorraine dugoff and judette m louis who lead authors representing top institutions from around the globe enhanced ebook version included with purchase your enhanced ebook allows you to access all of the text figures and references from the book on a variety of devices

this open access book published under a cc by 4 0 license in the pubmed indexed book series handbook of experimental pharmacology provides up to date

information on best practice to improve experimental design and quality of research in non clinical pharmacology and biomedicine

ce rapport est le troisième examen environnemental de la suisse il évalue ses progrès en matière de développement durable et de croissance verte avec des chapitres détaillés sur le traitement des eaux et sur la conservation et l'utilisation durable de la biodiversité

health care involves ethical complexities that also affect nursing care how can an ethically correct approach be recognized in borderline moral situations when are resources being fairly distributed and what is the relationship between ethics and economic considerations in nursing practice what is the ethical significance of concepts such as vulnerability and advanced nursing practice how can nurses in an interprofessional team help shape ethical decision making how can ethics be taught and what are the characteristics of ethically considered nursing research how should robotics be regarded ethically in everyday nursing care and what does migration sensitive nursing ethics look like this handbook brings together the views of international experts on these and other topics in three sections on foundations clinical and social fields of action and aspects of ethics transfer they highlight current debates on the ethics of care the book's consistent structure with goals and transfer questions makes it possible to go into the topics more deeply in a systematic way with forewords by christel bienstein and ann gallagher

after fifteen years of reconstruction in a relatively peaceful environment spanning the years 1990 to 2004 lebanon has experienced successive violent political events resulting from complex entangled internal and external struggles the syrian crisis and its political economic and demographic consequences on lebanon have increased these tensions this atlas sheds light on these new challenges and adds new data that complete the analyses already published in the atlas du liban territoires et société atlas of lebanon territories and society released in 2007 by the same research team some of its components are included in this edition beyond the international regional crisis and the population movements it takes into account lebanon's socio economic dimensions the environmental issues linked to uncontrolled urbanization and to natural risks as well as conflicts due to local territorial management this atlas is the result of a collaborative endeavor between french and lebanese researchers it uses a geographical approach that puts in the foreground a spatial analysis of social and natural phenomena public sources are scarce in lebanon especially at the local scale they are sometimes less reliable and difficult to access it is particularly the case for the lebanese census data conversely data are abundantly available on the refugees population which is less known than the population of refugees international data

help compare Lebanon to its neighbors thematic data produced by some ministries are helpful to provide a detailed view regarding specific domains analyses processed on aerial and satellite images have produced essential data on urbanization and environment local thematic fieldwork surveys have provided additional data the book consists of seven chapters the first one deals with the territorial state building seen in the light of regional geopolitics and emphasizes internal violence and the reemergence of militias and armed groups that fight each other and the state army Lebanon is once again perceived as a territory divided between multiple allegiances the second chapter is devoted to the analysis of population dynamics despite the lack of reliable data whose sources are subject to discussion it includes analyses of internal population flows the Lebanese diaspora and the assessment of Syrian refugees influx the third chapter shows the fragility of the Lebanese economic model its dependency on foreign investments and on the remittances of the diaspora as well as the deadlocks of industry and agriculture which aggravate social imbalances the fourth chapter is an assessment of urbanization in the country which has increased by 80 in surface in twenty years at the expense of natural spaces and agriculture the shore is highly coveted and widely artificialized and damaged multiple signs of environmental degradation are examined in chapter five they seem to announce the global climate change and its local effects in addition to that there is a direct link between massive urbanization and many risks measured and mapped in an increasingly detailed way chapter six tackles the dysfunctional public services that exploit natural resources water and energy supply both marked by massive shortages and the management of solid waste hit by a serious crisis the seventh and last chapter studies the mutations of the local territorial management which is marked by the retreat of the state if not its marginalization and the rise of other actors notably municipalities local powers and also civil society organizations after fifteen years of reconstruction in a relatively peaceful environment spanning the years 1990 to 2004 Lebanon has experienced successive violent political events resulting from complex entangled internal and external struggles the Syrian crisis and its political economic

Varney's midwifery continues to be the gold standard for midwifery practice in an updated seventh edition new lead editors assembled a team of expert contributors and authors to continue the legacy of Varney's midwifery as the trusted must have resource for students professional midwives and women's health practitioners Varney's midwifery uses current evidence based guidelines to address the care of women throughout the lifespan including primary care gynecology maternity care in a variety of settings and newborn care the seventh edition reflects the new core competencies for basic midwifery practice published

in 2020 including care of transgender individuals and abortion related care it also provides updated information on chronic conditions in pregnancy including a section discussing covid 19 new techniques for fetal screening diagnosis across the lifespan and updated content on health equity

this open access book introduces the human development model to define disability and map its links with health and wellbeing based on sen s capability approach the author uses panel survey data with internationally comparable questions on disability for ethiopia malawi tanzania and uganda it presents evidence on the prevalence of disability and its strong and consistent association with multidimensional poverty mortality economic insecurity and deprivations in education morbidity and employment it shows that disability needs to be considered from multiple angles including aging gender health and poverty ultimately this study makes a call for inclusion and prevention interventions as solutions to the deprivations associated with impairments and health conditions

the book discusses the various ways that blockchain technology is changing the future of money transactions government and business the first two chapters walk through the foundation of blockchain chapters 3 12 look at applications of blockchain in different industries and highlight its exciting new business applications it show why so many companies are implementing blockchain and present examples of companies who have successfully employed the technology to improve efficiencies and reduce costs chapter 13 highlights blockchain s powerful potential to foster emerging markets and economies including smart cities value based healthcare decentralized sharing economy machine to machine transactions data sharing marketplace etc chapter 14 offers a conceptual model provides information and insights and covers a step by step approach to plan and develop blockchain based technology

healthcare providers consumers researchers and policy makers are inundated with unmanageable amounts of information including evidence from healthcare research it has become impossible for all to have the time and resources to find appraise and interpret this evidence and incorporate it into healthcare decisions cochrane reviews respond to this challenge by identifying appraising and synthesizing research based evidence and presenting it in a standardized format published in the cochrane library thecochranelibrary.com the cochrane handbook for systematic reviews of interventions contains methodological guidance for the preparation and maintenance of cochrane intervention reviews written in a clear and accessible format it is the essential manual for all those preparing maintaining and reading cochrane reviews many of the principles and methods described here are appropriate for systematic reviews applied to other

types of research and to systematic reviews of interventions undertaken by others it is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews critically appraise published reviews or perform reviews themselves

this open access book on straw management aims to provide a wide array of options for rice straw management that are potentially more sustainable environmental and profitable compared to current practice the book is authored by expert researchers engineers and innovators working on a range of straw management options with case studies from vietnam the philippines and cambodia the book is written for engineers and researchers in order to provide them information on current good practice and the gaps and constraints that require further research and innovation the book is also aimed at extension workers and farmers to help them decide on the best alternative straw management options in their area by presenting both the technological options as well as the value chains and business models required to make them work the book will also be useful for policy makers required by public opinion to reduce greenhouse gas emissions and air pollution looking for research based evidence to guide the policies they develop and implement

paru à l'occasion du centenaire de l'organisation internationale du travail oit cet ouvrage collectif réunit les contributions présentées lors du colloque l'oit et le droit social en suisse 100 ans et après qui s'est tenu le 10 mai 2019 à l'université de genève dans une première partie l'ouvrage commence par retracer l'histoire de l'oit pour mieux envisager les perspectives d'avenir il aborde les principaux défis auxquels se trouve confrontée cette organisation mondialisation informalisation et digitalisation une seconde partie s'intéresse à la réception des normes de l'oit en droit suisse et traite en particulier du revenu de substitution en cas d'incapacité de travail consécutive à une maladie de la protection contre la discrimination antisyndicale des normes sur le temps de travail à l'ère numérique et de l'avenir du partenariat social l'ouvrage est édité par stéphanie dagron anne sylvie dupont et karine lempen professeures à faculté de droit de l'université de genève et co directrices du pôle berenstein pour le droit du travail et de la sécurité sociale

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Beyond the Graph: Unveiling the Power of Domain in GeoGebra

Ever stared at a beautifully rendered function on GeoGebra, only to be tripped up by a seemingly simple question: "What's the domain, again?" It's a fundamental concept often overlooked, yet crucial for truly understanding the behavior and limitations of any mathematical object. This isn't just about ticking boxes on a homework assignment; understanding domain in GeoGebra unlocks a deeper appreciation for the interplay between mathematics and its visual representation, allowing for more insightful analysis and problem-solving. Let's dive into the fascinating world of domain within the versatile GeoGebra environment.

1. Defining the Territory: What is a Domain in the Context of GeoGebra?

In simple terms, the domain of a function (or relation) in GeoGebra, like in any mathematical context, represents the set of all possible input values (usually denoted by 'x') for which the function is defined. Think of it as the function's "territory" – the values it's allowed to operate on. Outside this territory, the function is undefined; it simply doesn't have an output. GeoGebra, with its dynamic visual capabilities, makes this concept incredibly intuitive. Let's consider a simple example: the function $f(x) = 1/x$. If you input this into GeoGebra, you'll see a hyperbola. Notice that there's a vertical asymptote at $x=0$. This is because the function is undefined at $x=0$ – you can't divide by zero! Therefore, the domain of $f(x) = 1/x$ is all real numbers except $x=0$, often written as $(-\infty, 0) \cup (0, \infty)$. GeoGebra visually highlights this undefined point, reinforcing the concept of domain.

2. Exploring Domain Restrictions: Unveiling the Limitations

Many functions possess inherent limitations on their domain. These limitations aren't always as obvious as division by zero. Consider the square root function, $f(x) = \sqrt{x}$. The square root of a negative number is not a real number. Thus, the domain of this function is limited to $x \geq 0$, represented in GeoGebra as $[0, \infty)$. You'll notice GeoGebra only plots the function for non-negative x-values. Another common

restriction involves logarithmic functions. The function $f(x) = \log(x)$ is only defined for positive x -values. Attempting to input $\log(0)$ or $\log(-1)$ in GeoGebra will result in an error, clearly demonstrating the restricted domain $(0, \infty)$. GeoGebra's ability to visualize these restrictions is invaluable. By plotting the function and observing its behavior, students can quickly grasp the concept of domain and identify potential limitations.

3. Domain Manipulation and Advanced Techniques in GeoGebra

GeoGebra empowers you to actively manipulate and explore domain restrictions. For instance, you can define a piecewise function where the domain is explicitly segmented. Let's say you want a function that behaves as x^2 for $x < 0$ and as x for $x \geq 0$. GeoGebra allows you to define this using conditional statements, clearly illustrating how the domain dictates the function's output in different regions. Furthermore, GeoGebra's CAS (Computer Algebra System) allows symbolic manipulation, enabling the determination of domains for more complex functions analytically. The CAS can help simplify expressions and identify potential points of discontinuity or limitations, thereby facilitating the precise definition of the domain.

4. Real-World Applications: Beyond the Classroom

Understanding domain isn't just an abstract mathematical exercise. It has numerous practical applications in various fields. For instance, in physics, the domain of a function modeling projectile motion might be limited by physical constraints like the height of a building or the range of a projectile. Similarly, in economics, a demand function might have a domain restricted to positive quantities and prices. GeoGebra can be used to model these real-world scenarios, visualizing the domain's implications and aiding in the analysis of the modeled system.

Conclusion: Mastering Domain for Deeper Mathematical Insights

Mastering the concept of domain in GeoGebra is crucial for a thorough understanding of functions and their applications. GeoGebra's dynamic visual representations, coupled with its symbolic computation capabilities, provide an exceptionally powerful tool for exploring and understanding domain restrictions. By visualizing the defined and undefined regions of functions, we move beyond rote memorization to a deeper comprehension of mathematical relationships and their real-world interpretations.

Expert-Level FAQs:

1. How can I use GeoGebra to determine the domain of an implicitly defined function? GeoGebra's CAS can help solve for y in terms of x (if possible) allowing you to identify restrictions on x based on the resulting explicit function. Alternatively, visual inspection of the graph can often provide insights into the domain. 2. How does GeoGebra handle complex numbers when determining domain? GeoGebra primarily works with real numbers. For complex domains, you might need to use more advanced mathematical software or employ techniques that analyze the real and imaginary components separately. 3. Can GeoGebra automatically find the domain of a function defined using a spreadsheet? While not directly automatic, you can use the data from the spreadsheet to visually identify the range of x -values used and infer the domain. You can then verify this inference by analyzing the function itself. 4. How can I use GeoGebra to visualize the domain of a multivariable function? Visualizing multivariable function domains can be challenging. GeoGebra can be used to plot 2D cross-sections or level curves to gain some intuition, but 3D plots may be necessary for a more comprehensive understanding. 5. How can I effectively use GeoGebra's CAS to simplify complex expressions and subsequently determine the domain? Use the 'Simplify' command within the CAS. Then, systematically identify any potential sources of undefined values, such as division by zero, even roots of negative numbers, or logarithms of non-positive numbers. This process often involves factoring and other algebraic manipulations.

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