

## America 2020 The Survival

Proceedings of International Conference on Recent Trends in Computing  
Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response (volume I.B)  
The Cancer Problem  
Detection and Analysis of SARS  
Coronavirus  
Coronavirus Disease (COVID-19): Psychological and Behavioral Consequences of Confinement on Physical Activity, Sedentarism, and Rehabilitation  
Brain Tumors: An Interdisciplinary Approach  
Handbook of Oncobiology: From Basic to Clinical Sciences  
Wireless Identification and Sensing Systems for Harsh and Severe Environments  
Surface Modification of Titanium Dental Implants  
Coronavirus Disease 2019 (Covid-19)  
Earthworms and Ecological Processes  
Interdisciplinary Perspectives and Advances in Understanding Adaptive Memory  
Artificial Intelligence and Causal Inference  
Rethinking Heritage in Precarious Times  
Understanding Metaphors in the Life Sciences  
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Identification of Biomarkers, New Treatments, and Vaccines for COVID-19  
COVID-19 and Similar Futures  
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Artificial Intelligence, Learning and Computation in Economics and Finance  
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Digitalization and the Impacts of COVID-19 on the Aviation Industry  
Cognitive Illusions  
Drug Repurposing for COVID-19 Therapy  
Cellular and Molecular Basis in Parasitic Diseases  
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The Environmental Impact of COVID-19  
Research Handbook on Foreign Exit, Relocation and Re-entry  
Industrial Application of Functional Foods, Ingredients and Nutraceuticals  
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THE INTELLIGENCE OF MACHINES  
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Food for Thought  
A Fair Trial  
Community Series-Extremophiles: Microbial Genomics and Taxogenomics, Volume II  
Handbook of Oxidative Stress in Cancer: Therapeutic Aspects  
Rajendra Prasad Mahapatra Zisis Kozlakidis Agnes Arnold-Forster Chaudhery Mustansar Hussain Pedro L. Almeida Nima Rezaei R. C. Sobti Smail Tedjini Karan Gulati Ali Gholamrezanezhad Yahya Kooch Momiao Xiong Nick Shepherd Andrew S. Reynolds Eugene Nulman Amirhossein Goharian Carrillo, Francisco J. Paul C. Guest Gavin J. Andrews Raghvendra Pratap Singh Jane A. Soxman Ragupathy Venkatachalam Tanuja Sharma Nima Rezaei Kurnaz, Salim Rüdiger F Pohl Filippo Drago Qingfeng Zhang Deepak Rawtani Larimo, Jorma C. Anandharamakrishnan Surya K. De Dulani Meedeniya Patrick K. Kalifungwa Byrd-Poller, Lynda George Manus Steven Narod Rafael R. de la Haba Sajal Chakraborti

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this book is a collection of high quality peer reviewed research papers presented at international conference on recent trends in computing icrtc 2022 held at srm institute of science and technology ghaziabad delhi india during 3 4 june 2022 the book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques the book presents original works from researchers from academic and industry in the field of networking security big data and the internet of things

volume i b an outbreak of a respiratory disease first reported in wuhan china in december 2019 and the causative agent was discovered in january 2020 to be a novel betacoronavirus of the same subgenus as sars cov and named severe acute respiratory syndrome coronavirus 2 sars cov 2 coronavirus disease 2019 covid 19 has rapidly disseminated worldwide with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2 person to person transmission is occurring both in the community and healthcare settings the world health organization who has recently declared the covid 19 epidemic a public health emergency of international concern the ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis risk factors for infection natural history of disease including clinical presentation and outcomes prognostic factors for severe illness period of infectivity modes and extent of virus inter human transmission as well as effective preventive measures and public health response and containment interventions there are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff including clinical laboratory managerial and epidemiological data analysis and risk assessment experts it presents challenges around public communication and messaging around risk with the potential for misinformation and disinformation therefore integrated operational research and intervention learning from experiences across different fields and settings should contribute towards better understanding and managing covid 19 this research topic aims to highlight interdisciplinary research approaches deployed during the covid 19 epidemic addressing knowledge gaps and generating evidence for its improved management and control it will incorporate critical theoretically informed and empirically grounded original research contributions using diverse approaches experimental observational and intervention studies conceptual framing expert opinions and reviews from across the world the research topic proposes a multi dimensional approach to improving the management of covid 19 with scientific contributions from all areas of virology immunology clinical microbiology epidemiology therapeutics communications as well as infection prevention and public health risk assessment and management studies

this is the first history of cancer in nineteenth century britain it demonstrates that the nineteenth century saw cancer acquire the unique emotional symbolic and politicized status it maintains today

detection and analysis of sars coronavirus detecting and analyzing the covid 19 pandemic with biosensor technology the highly contagious sars cov 2 pathogen has challenged health systems around the world as they struggle to detect and monitor the spread of the pathogen in detection and analysis of sars coronavirus advanced biosensors for pandemic viruses and related pathogens expert chemists chaudhery mustansar hussain and sudheesh k shukla deliver a practical analysis of how contactless coronavirus detectors

may be developed using existing biosensor technology the editors outline current challenges in the field the bioanalytical principles for coronavirus detection and available biosensor technology they then move on to how available technology might be adapted to detect coronaviruses and how commercialization of the technology might unfold the lessons learned in this book are readily applicable to the study of other current and emerging pathogens readers will also enjoy a thorough introduction to the current diagnostic approaches for covid 19 including common challenges technology adaptation and future potential an exploration of bio analytical strategies for sars cov 2 covid 19 including covid detection via nanotechnology biosensing approaches and the role of nanotechnology in coronavirus detection practical discussions of biosensors for the analysis of sars cov 2 covid 19 including sensor development for coronavirus and chemical sensors for coronavirus diagnosis in depth treatments of the commercialization and standardization for analytical technologies perfect for virologists pharmaceutical industry professionals and sensor developers detection and analysis of sars coronavirus is also an indispensable resource for those working in analytical research institutes biotechnology industry professionals and public health agency professionals

the brain tumors an interdisciplinary approach is the thirteenth volume of the interdisciplinary cancer research series publishes comprehensive volume on diagnosis and treatment of brain tumors it starts with a general title on an interdisciplinary approach in brain tumors inherited genetics syndromes associated with central nervous system tumors as well as the impact of epigenetic methylation on gliomagenesis were explained then new approaches on precision medicine in brain tumors are discussed after discussion on neurosurgical management of brain tumors neuroimaging and radiosurgery of brain tumors are explained novel approaches to bypassing the blood brain barrier for drug delivery to brain tumors are also discussed after presentation of pediatric low grade gliomas treatment of glioblastoma is the subject of other chapters the potential role of artificial intelligence in the treatment of glioblastoma is discussed in the last chapter this is the main concept of cancer immunology project cip which is a part of universal scientific education and research network users this interdisciplinary book will be of special value for neurosurgeons and oncologists who wish to extend their knowledge on brain tumors

this handbook on cancer biology comprehensively reviews the current status of the oncobiology of major cancer types cancer detection and treatment strategies principles and processes of cancer drug development and nanomedicine and other emerging cancer medicine applications to cancer diagnosis and treatment the book also provides practical and implementable nutritional guidance in cancer prevention treatment and quality of life for cancer survivors it discusses pharmacogenetics strategies for predicting cancer prognosis and treatment exposure response and toxicity further it presents bioinformatics approaches for predicting anti cancer drugs and drug combinations based on the multi omic data including transcriptomics toxicogenomics functional genomics and biological networks the

handbook also examines major factors and pathways that regulate cancer stem cells development and discusses potential targeted therapy for cancer stem cells the book explores the application of the crispr cas9 based gene editing technique in basic cancer research diagnosis and treatment of cancer this handbook is an invaluable source for oncologists researchers public health specialists epidemiologists and policy makers

comprehensive resource reviewing the state of the art in wireless identification and sensing systems proposing several examples of applications while complying with rf standard and regulations wireless identification and sensing systems for harsh and severe environments covers the recent advances in wireless and radio frequency identification rfid systems where severe electromagnetic behavior and harsh conditions are taken into consideration providing the reader with design rules and methodologies to obtain satisfactory performance and avoid the typical oversights and mistakes that can be made when first approaching this topic in addition to examples of real implementations the book gives a general overview of rfid and wireless technologies as well as their pros and cons in terms of expected performance and future directions of technologies the perspective and evolution towards iot solutions and artificial intelligence ai are pointed out the book furthermore addresses chipless rfid frameworks from the theoretical perspective as well as that of implementation including examples from scientific literature and commercial solutions it also describes surface acoustic wave saw sensors in wired and wireless configurations and developments needed to implement the technology wireless identification and sensing systems for harsh and severe environments includes discussion of frequency diversity for robust ultra high frequency uhf rfid communication a key technology for future sensor and actuator devices in the internet of things and harmonic transponders for tracking and sensing resonator and reflective delay line configurations and chipless rfid technology for operations in harsh environments potential of battery less near field communication nfc sensors using mobile phones as readers in severe environments chipless rfid channel modeling considering the spatial multipath channel 3d bi static radar cross section rcs tag model and analogue effects providing comprehensive coverage of the subject and examples of successful implementations of wireless solutions exploiting rfid technologies and enabling systems for the internet of things iot wireless identification and sensing systems for harsh and severe environments is an essential resource for engineers and phd students in wireless and rfid technologies

this book provides a comprehensive technical and scientific overview of the surface modification of titanium dental implants coverage ranges from basic concepts of surface modification to advanced micro and nano engineering strategies employed to achieve augmented bioactivity to meet the needs of compromised patient conditions a special focus of the book is advanced state of the art electrochemically anodized nanostructures fabricated on implants towards enhanced bioactivity and local therapy surface modification of titanium dental implants will keep you current in the domain of titanium dental implants and will provide an improved understanding

of their performance and application the book will benefit engineers clinicians and researchers in biomaterials biomedical engineering dental and bone implants nano engineering and technology

umfassende betrachtung aller wesentlichen aspekte von covid 19 insbesondere der Ätiologie diagnose symptomatologie versorgung und behandlung coronavirus disease 2019 covid 19 a clinical guide bietet angehörigen der gesundheitsberufe auf allen ebenen aktuelle erkenntnisse über die klinischen epidemiologischen genomischen virologischen und radiologischen merkmale von covid 19 mit diesem umfassenden lehrwerk werden zahlreiche systematische Übersichten und meta analysen in einem einzigen band zusammengeführt darüber hinaus werden themen wie gesundheitspolitische maßnahmen notfallpläne für einen massenanfall von erkrankten die sicherheit des gesundheitspersonals die wirtschaftlichen auswirkungen die lehren für künftige pandemieausbrüche und weitere paraklinische und soziale aspekte der covid 19 pandemie betrachtet das buch bietet eine gründliche zusammenfassung und kritische analyse von covid 19 auf grundlage einer umfassenden durchsicht der neuesten veröffentlichten literatur und daten dargestellt werden die virologischen eigenschaften von sars cov 2 pulmonale und extrapulmonale manifestationen und folgen von covid 19 die prävention und eindämmung der Übertragung die direkten auswirkungen der pandemie auf die versorgung und behandlung von patienten mit anderen erkrankungen die passive immuntherapie und ihre auswirkungen diagnose und behandlungsansätze für kritisch erkrankte patienten und viele weitere themen herausgeber ist ein führender mediziner der an der spitze der covid 19 forschung steht dieses unverzichtbare referenzwerk bietet außerdem eine zusammenführung klinischer radiologischer und epidemiologischer daten sowie eine betrachtung der prävention diagnose und behandlung erörterungen der epidemiologie wirkmechanismen erscheinungsformen und behandlung von kardiovaskulären neurologischen und pulmonalen erkrankungen in verbindung mit covid 19 einen Überblick über die diagnosetechniken insbesondere radiologische bildgebung und rt pcr tests eine analyse der therapeutischen ansätze zur behandlung unterschiedlicher komplikationen eine erörterung der behandlung von symptomen nach der impfung und der auswirkungen der immunisierung informationen über covid 19 in der pädiatrie bei krebsspatienten sowie bei patienten mit lungenerkrankungen diabetes bluthochdruck adipositas und anderen grunderkrankungen coronavirus disease 2019 covid 19 a clinical guide ist eine unverzichtbare informationsquelle für Ärzte forscher epidemiologen krankenhauspersonal radiologen und mitarbeiter im gesundheitswesen die mit beliebigen aspekten der covid 19 pandemie konfrontiert sind

earthworms are the most important members of the soil detritivore community and function as soil engineers because of their effects on soil properties and their influence on the availability of resources for other organisms including microorganisms and plants soil productivity and plant growth are strongly affected by biological activities of earthworms they act on soil structures through creation of burrows which facilitate water and gas transport incorporation of litter into soil mixing of soil minerals organic materials and breaking

down of soil organic matter ejection of surface and or subsurface casts earthworms have positive effects on the soil fabric and on the decomposition and mineralization of litter by breaking down organic matter and producing large amounts of faeces thereby mixing litter with the mineral soil therefore they play an important part humus form changes according to the patterns of plant communities succession consequently they are also good bio indicators for soil and site quality and are thus useful when planning ecosystem function improvements earthworm s populations are indicators in degraded regions and in soil reclamations aristotle called them intestines of the earth and the eminent nineteenth century biologist charles darwin spent many years observing their major influence on humus formation and soil transport however the links between their impacts on the soil environment and the resulting modification of natural selection pressures on engineers as well as on other organisms have received little attention based on papers recently published in the science journal phillips et al 2019 document an impressive group effort by 141 researchers from 35 countries to develop a global scale atlas of earthworms in addition fierer 2019 described the earthworms place on earth so darwin s legacy continues despite the vast increase in scientific literature on earthworms in recent years much remains to be known of their basic biology ecology and functioning in this book we summarized the current knowledge in relation to ecological processes involved with earthworms in croplands rangelands forests and urban soils

interdisciplinary perspectives and advances in understanding adaptive memory presents the latest theories and research on what is known about adaptive memory often referred to as survival memory conceptually this is the study of memory systems that evolved to aid remembering survival and fitness relevant information in this volume survival is contextualized from many converging perspectives within psychology including comparative psychology therefore adaptive memory in animals especially non human primates is covered in one of the book s four sections the unification of viewpoints is achieved thematically stemming from forensic science cognitive neuroscience biology computer science and anthropology this interdisciplinary approach binds the chapters together and facilitates an integrative analysis of adaptive survival memory in the concluding chapter

artificial intelligence and causal inference address the recent development of relationships between artificial intelligence ai and causal inference despite significant progress in ai a great challenge in ai development we are still facing is to understand mechanism underlying intelligence including reasoning planning and imagination understanding transfer and generalization are major principles that give rise intelligence one of a key component for understanding is causal inference causal inference includes intervention domain shift learning temporal structure and counterfactual thinking as major concepts to understand causation and reasoning unfortunately these essential components of the causality are often overlooked by machine learning which leads to some failure of the deep learning ai and causal inference involve 1 using ai techniques as major tools for causal analysis and 2 applying the causal concepts and causal

analysis methods to solving ai problems the purpose of this book is to fill the gap between the ai and modern causal analysis for further facilitating the ai revolution this book is ideal for graduate students and researchers in ai data science causal inference statistics genomics bioinformatics and precision medicine key features cover three types of neural networks formulate deep learning as an optimal control problem and use pontryagin s maximum principle for network training deep learning for nonlinear mediation and instrumental variable causal analysis construction of causal networks is formulated as a continuous optimization problem transformer and attention are used to encode decode graphics rl is used to infer large causal networks use vae gan neural differential equations recurrent neural network rnn and rl to estimate counterfactual outcomes ai based methods for estimation of individualized treatment effect in the presence of network interference

rethinking heritage in precarious times sets a fresh agenda for heritage studies by reflecting upon the unprecedented nature of the contemporary moment in doing so the volume also calls into question established ideas ways of working and understandings of the future presenting contributions by leading figures in the field of heritage studies indigenous scholars and scholars from across the global north and global south the volume engages with the most pressing issues of today coloniality the climate emergency the covid 19 pandemic structural racism growing social and economic inequality and the ongoing struggle for dignity and restitution considering the impact of climate change chapters re imagine museums for climate action explore the notion of a world heritage for the anthropocene and reflect on heritage and posthumanism drawing inspiration from the global demonstrations against racism police violence and authoritarianism chapters explore the notion of a people s heritage draw on local and indigenous conceptualizations to lay out a notion of heritage in the service of social justice and restitution and detail the precariousness of universities and heritage institutions in the global south analysing the ongoing impact of the covid 19 pandemic chapters also explore the changing nature of life under lockdown describe its effects on theories of urbanity and reflect on emergent covid socialities and heritage in the making rethinking heritage in precarious times argues that we need the deep time perspective that heritage studies offers as well as its sense of transgenerational conversations and accountabilities in order to respond to these many challenges and to craft open creative and inclusive futures it will be essential reading for academics and students engaged in the study of heritage anthropology memory history and geography

covering a range of metaphors from a diverse field of sciences from cell and molecular biology to evolution ecology and biomedicine understanding metaphors in the life sciences explores the positive and negative implications of the widespread use of metaphors in the biological and life sciences from genetic codes programs and blueprints to cell factories survival of the fittest the tree of life selfish genes and ecological niches to genome editing with crispr s molecular scissors metaphors are ubiquitous and vital components of the



modern life sciences but how exactly do metaphors help scientists to understand the objects they study how can they mislead both scientists and laypeople alike and what should we all understand about the implications of science's reliance on metaphorical speech and thought for objective knowledge and adequate public policy informed by science this book will literally help you to better understand the metaphorical dimensions of science

using innovative interpretations of recent big budget films coronavirus capitalism goes to the cinema interrogates the social political and economic landscape during and prior to the covid 19 crisis and provides lessons for advancing progressive politics in a post pandemic age by exploring numerous films including avengers endgame once upon a time in hollywood 1917 and parasite this short book provides a deep understanding about neoliberal society in a time of crisis facilitated by the ideas of emma goldman naomi klein karl marx noam chomsky and many more these movies are reinterpreted to point out our political blind spots combat our non covid contagions and inoculate us into ideological herd immunity from explorations of the supervillain like decision making of our political leaders to the inequalities in infection outcomes that sparked further black lives matter protests this book discusses the central social challenges we face today through the sights and sounds of some of the most beloved films of the very recent past this entertaining and accessible book will reward readers who are interested in contemporary politics in the context of covid 19 as well as cinephiles and movie goers who want fresh interpretations of instant classics to help explain the world around them more than just informative and amusing this book is a call to action to those activists who want social change in the face of coronavirus capitalism

interactions of bone with orthopedic implants and possible failures focuses on the mechanical and biological issues that may cause failure of the implant bone construct the book provides discussions on the effects of the design process surface and other engineering parameters of implants and their interaction with bone tissue for implant designers it is highly crucial to know the final effects of what they are designing or aiming to design along with performance parameters it is also crucial for orthopedic surgeons to be familiar with the background of the design and process parameters of the implant they will insert in a patient's body with the understanding brought forth in this book surgeons can have better implant options and implant designers can create and develop new implant designs this book can also help biomechanical and mechanical engineers who are normally dealing with testing and analysis of orthopedic implants examine the biomechanical behavior of the implants and their interaction with bone tissue explains interactions along with possible complications of trauma joint and spinal implants and failures of the implant and bone tissue focuses on issues such as bone loss defects and resorption at the bone and implant interface includes case studies of implant failures and discusses the mechanical and biological reasons that would cause failure of bone and implant integration

with human induced environmental impacts disrupting human life in deeper ways and at a wider scale than anything previously experienced this multidisciplinary book looks at the ways that current knowledge bases seem inadequate to help us deal with such realities it offers a critical appraisal of the current knowledge infrastructure including science technology innovation education and informal knowledge systems

the novel coronavirus 2019 covid 19 has caused a serious global pandemic in just one year nearly every country and territory in the world has been affected by the virus the virulence and infection rate of the virus are profound and has required extreme social distancing measures across the globe in order to prevent overwhelming the healthcare services and hospitals covid 19 appears to have the greatest effects on elderly individuals and those who have co morbid diseases such as diabetes and obesity as the cases and death rate remain high there are justified fears of this virus remaining for several months or years to come to address this a rapid and unprecedented worldwide mobilization effort has begun to identify effective treatments and develop vaccines as these begin to be deployed and administered across the globe many now feel the virus will be brought under control and lives will eventually return to normal this new volume will increase readers understanding of the ongoing covid 19 pandemic through a series of chapters that address these concerns leading experts will discuss new treatment approaches vaccine development mental health aspects of the pandemic and convey the results of survey studies the book will be an excellent resource for researchers studying virology metabolic diseases respiratory disorders and clinical scientists physicians drug companies and healthcare services and workers

this volume provides a critical response to the covid 19 pandemic showcasing the full range of issues and perspectives that the discipline of geography can expose and bring to the table not only to this specific event but to others like it that might occur in future comprised of almost 60 short 2500 word easy to read chapters the collection provides numerous theoretical empirical and methodological entry points to understanding the ways in which space place and other geographical phenomenon are implicated in the crisis although falling under a health geography book series the book explores the centrality and importance of a full range of biological material social cultural economic urban rural and other geographies hence the book bridges fields of study and sub disciplines that are often regarded as separate worlds demonstrating the potential for future collaboration and cross disciplinary inquiry indeed book articulates a diverse but ultimately fulsome and multiscalar geographical approach to the major health challenge of our time bringing different types of scholarship together with common purpose the intended audience ranges from senior undergraduate students and graduate students to professional academics in geography and a host of related disciplines these scholars might be interested in covid 19 specifically or in the book s broad disciplinary approach to infectious disease more generally the book will also be helpful to policy makers at various levels in formulating responses and to general readers interested in learning about the covid 19 crisis

microbial essentialism an industrial prospective refers to properties specifically possessed by microbes such as secretion of metabolites which make them unique and can be employed by industries these microorganisms can be commercially exploited for beneficial purposes such as the production of whole microbial cells or their products for direct use or as starting raw material in the manufacture of other commercial products which can contribute to large scale and profit oriented businesses microbial essentialism an industrial prospective reviews the newest techniques approaches and options in the use of microorganisms for the manufacture of industrially important products such as pharmaceuticals industrial enzymes chemicals proteins foods and beverages and fuels it covers fundamental principles of established and innovative industrial microbiology and biotechnology processes and products it also discusses industrial microorganisms and the technology required for large scale cultivation and isolation of fermentation products covers key aspects of microbial physiology exploring the versatility of microorganisms and their diverse metabolic activities and products provides methods and various traditional and novel applications of microorganisms to industrial processes contributed by a multidisciplinary group of experts who offer not only a thorough evaluation of the primary literature but also invaluable first hand experience in industrial microbiology and biotechnology

handbook of clinical techniques in pediatric dentistry the second edition of the handbook of clinical techniques in pediatric dentistry features updated and expanded information on pediatric clinical dentistry including eight new chapters written by educators with special interest in each topic since publication of the first edition non invasive treatment is at the forefront of pediatric dental care and the new edition reflects this with multiple options and techniques for non invasive treatment the book is filled with photographs for improved understanding and guidance through the procedures described the book is an easy to read guide to clinical pediatric dentistry with practical evidence based information for dental students assistants hygienists residents in both general dentistry and specialty training and general and pediatric dentists handbook of clinical techniques in pediatric dentistry is a valuable resource for assuring excellence in care for our youngest patients key features presents step by step clinical instruction for pediatric procedures features eight new chapters including non invasive clinical techniques trauma to primary incisors caries risk assessment oral pathology interceptive orthodontics esthetics sleep disordered breathing infant examination and treating the special needs patient offers more than 600 clinical and radiographic photographs provides practical information and guidance for clinical practice in pediatrics

this book presents frontier research on the use of computational methods to model complex interactions in economics and finance artificial intelligence machine learning and simulations offer effective means of analyzing and learning from large as well as new types of data these computational tools have permeated various subfields of economics finance and also across different schools of economic thought through 16 chapters written by pioneers in economics finance computer science psychology complexity and statistics

econometrics the book introduces their original research and presents the findings they have yielded theoretical and empirical studies featured in this book draw on a variety of approaches such as agent based modeling numerical simulations computable economics as well as employing tools from artificial intelligence and machine learning algorithms the use of computational approaches to perform counterfactual thought experiments are also introduced which help transcend the limits posed by traditional mathematical and statistical tools the book also includes discussions on methodology epistemology history and issues concerning prediction validation and inference all of which have become pertinent with the increasing use of computational approaches in economic analysis

this book contains compilation of emerging discourses on responsible leadership for sustainability in uncertain times uncertainty is looming large at global level due to covid climatic disruptions and persisting social discriminations especially since the pandemic which have disrupted economies at both local and global levels technology was a boon to mitigate hardships emerging from such disruptions the book documents the leadership roles welfare issues best practices and innovations that help organizations to sustain in a vuca world economic social and environmental concerns and their mitigation as documented in this book will be relevant for future planning and execution for sustainable existence a blend of research by practitioners and academicians capturing organizational experiences through case studies makes it attractive for a wide range of readership business leaders will find this book extremely helpful to understand the nuances and insights for responsible leadership and innovative strategies for stakeholder management and engagement for sustained businesses practitioners would get insights into responsible leadership for improving existing sustainable practices and speed up the transition which is necessitated due to disruptions prospective entrepreneurs may find that book helpful for creating responsible organizations which are sustainable due to responsible management of resources employees and environment students and researchers can learn from the cases and documentation on responsible leadership social and environmental concerns and sustainability in this book

the hematological cancer diagnosis and treatment an interdisciplinary approach is the eleventh volume of the interdisciplinary cancer research series publishes a comprehensive volume on the diagnosis and treatment of hematological cancers the eleventh volume of the book entitled hematological cancer diagnosis and treatment an interdisciplinary approach starts with a general title on stem cell therapy and hematological cancers diagnosis and therapy for acute myeloid leukemia chronic lymphocytic leukemia multiple myeloma and lymphoma are explained in this volume this is the main concept of cancer immunology project cip which is a part of universal scientific education and research network users of this interdisciplinary book will be of special value to hematologists and oncologists who wish to extend their knowledge on hematological cancer

in the 21st century digital technologies have become an indispensable part of our lives due to the speed and convenience they provide the digitalization trend has accelerated after the initial outbreak of the covid 19 pandemic many businesses are taking measures to adapt and do business in a world where everything from teamwork teaching sales and customer service is done remotely aviation companies hit particularly hard by the pandemic due to huge declines in passenger and freight demand must focus on the use of digital technologies to regain organizational success digitalization and the impacts of covid 19 on the aviation industry presents the relationship between the aviation industry and digitalization it studies the effects of digitalization and the covid 19 pandemic on the aviation industry this publication offers both empirical and theoretical information to analyze the future of the aviation industry covering topics such as aviation education corporate communication and marketing challenges this book is an essential resource for researchers academicians students and educators of higher education government officials leaders in the aviation industry marketing managers and communications specialists

cognitive illusions explores a wide range of fascinating psychological effects in the way we think judge and remember in our everyday lives in this volume rüdiger f pohl brings together leading international researchers to define what cognitive illusions are and discuss their theoretical status are such illusions proof of a faulty human information processing system or do they only represent by products of otherwise adaptive cognitive mechanisms the book describes and discusses 26 different cognitive illusions with each chapter giving a profound overview of the respective empirical research including potential explanations individual differences and relevant applied perspectives this edition has been thoroughly updated throughout featuring new chapters on negativity bias metacognition and how we respond to fake news along with detailed descriptions of experiments that can be used as classroom demonstration in every chapter demonstrating just how diverse cognitive illusions can be it is a must read for all students and researchers of cognitive illusions specifically those focusing on thinking reasoning decision making and memory

the environmental impact of covid 19 discover the wider environmental effects of the covid 19 pandemic with this up to date resource from leading voices in the field the environmental impact of covid 19 delivers an insightful analysis of various environmental aspects of the covid 19 pandemic that have caused global concern the book discusses the transmission of covid 19 in the environment the pandemic s environmental impact risk mitigation and management management of covid related waste and the environmental implications of the virus it also considers the socio economic implications of covid 19 s spread including the effects of international lockdowns on different strata of society and various industries including the biomedical industry the environmental industry and the pharmaceutical industry an entire section of the text is devoted to a discussion about the waste generated due to covid 19 and the effect of that waste on different environmental bodies another is dedicated to the impact of covid 19 on the environment in the short

and long term including its effect on climate and climate change readers will also benefit from the inclusion of a thorough introduction to the transmission of covid 19 in the environment including its viability in different environmental media and the effect of environmental factors in its transmission an evaluation and analysis of covid 19 including traditional analytical techniques and sampling for covid 19 and modern sensor based techniques for identification an exploration of the socio economic implications of covid 19 including its effect on a variety of industries a treatment of the environmental impact of covid 19 in the context of risk mitigation and management perfect for academics and industry professionals whose work requires them to understand the wider environmental implications of the sars cov 2 pandemic the environmental impact of covid 19 will also earn a place in the libraries of private sector professionals working on products and services that aim to reduce the environmental impact of the coronavirus

this definitive research handbook explores the restructuring strategies of globalised firms bringing together a wide range of topics from export exit subsidiary divestment and market re entry to relocation offshoring and backshoring

industrial application of functional foods ingredients and nutraceuticals extraction processing and formulation of bioactive compounds explains the fundamental concepts and underlying scientific principles of nutrient delivery nutraceutical processing technologies and potential opportunities in the field of new product development the book also includes sections on the extraction and purification of functional ingredients effective delivery of nutrients health benefits safety and regulatory aspects divided in four sections this book provides an up to date highly applicative work that highlights the mechanistic aspects related to the challenges and opportunities associated with developing delivering and marketing functional foods and nutraceuticals explains the fundamental concepts of nutrient delivery and nutraceutical processing technologies provides an understanding of pharmacokinetics oral bioavailability and different delivery techniques features case studies to illustrate practical applications and commercialization

fundamentals of cancer detection treatment and prevention the professional guide to cancer diagnosis and therapy for researchers and clinicians in fundamentals of cancer detection treatment and prevention distinguished researcher surya k de delivers a concise and authoritative guide to cancer treatment diagnosis and prevention the book offers a comprehensive overview of cancer in humans from its causes symptoms and diagnosis to the variety of treatment options available today intuitively organized by cancer type this guide provides concise information on risk factors diagnosis and treatment options for all commonly encountered tumors including surgery radiation therapy chemotherapy and immunotherapy all us fda approved drugs like small molecules peptides monoclonal antibodies whole antibodies gene therapy antibody drug conjugates and cell therapies are considered and information about their generic and brand names clinical uses and mechanisms of action is presented readers will also find a thorough overview of human cancers including

cancer risk factors and possible preventions comprehensive explorations of bladder blood brain and spinal cord cancers practical discussions of breast colorectal cervical kidney and liver cancer in depth examinations of lung skin ovarian vaginal vulvar pancreatic and prostate cancers as well as mesothelioma perfect for pharmaceutical chemists oncologists pharmacologists and medicinal chemists fundamentals of cancer detection treatment and prevention is an indispensable guide for professional researchers whether they are working in the clinic or the pharmaceutical industry

this book focuses on deep learning dl which is an important aspect of data science that includes predictive modeling dl applications are widely used in domains such as finance transport healthcare automanufacturing and advertising the design of the dl models based on artificial neural networks is influenced by the structure and operation of the brain this book presents a comprehensive resource for those who seek a solid grasp of the techniques in dl key features provides knowledge on theory and design of state of the art deep learning models for real world applications explains the concepts and terminology in problem solving with deep learning explores the theoretical basis for major algorithms and approaches in deep learning discusses the enhancement techniques of deep learning models identifies the performance evaluation techniques for deep learning models accordingly the book covers the entire process flow of deep learning by providing awareness of each of the widely used models this book can be used as a beginners guide where the user can understand the associated concepts and techniques this book will be a useful resource for undergraduate and postgraduate students engineers and researchers who are starting to learn the subject of deep learning

in a 1951 lecture turing alan 1951 turing argued it seems probable that once the machine thinking method had started it would not take long to outstrip our feeble powers there would be no question of the machines dying and they would be able to converse with each other to sharpen their wits at some stage therefore we should have to expect the machines to take control in the way that is mentioned in samuel butler s *erewhon* also in a lecture broadcast on the bbc turing alan 1951 he expressed the opinion if a machine can think it might think more intelligently than we do and then where should we be even if we could keep the machines in a subservient position for instance by turning off the power at strategic moments we should as a species feel greatly humbled this new danger is certainly something which can give us anxiety as interpreted by seth baum hubert dreyfus writes in general by accepting the fundamental assumptions that the nervous system is part of the physical world and that all physical processes can be described in a mathematical formalism which can in turn be manipulated by a digital computer one can arrive at the strong claim that the behavior which results from human information processing whether directly formalizable or not can always be indirectly reproduced on a digital machine dreyfus 1972 john searle writes could a man made machine think assuming it possible produce artificially a machine with a nervous system the answer to the question seems to be obviously yes could a digital computer think if by digital computer you mean anything

at all that has a level of description where it can be correctly described as the instantiation of a computer program then again the answer is of course yes since we are the instantiations of any number of computer programs and we can think searle 1980

organizational trauma theory endeavors to examine the psychological and physical effects of trauma on individuals and groups within an organization individual trauma the individual mental and emotional disruptions that affect the well being of self often contributes to organizational trauma or sometimes the disruptions are external and caused by societal economic or political changes recent traumatic events such as the covid 19 pandemic and racial tensions stemming from social injustices present even greater challenges for organizations as leaders seek to facilitate healing restoration and renewal organizational trauma is currently playing out in our organizations and organizational scholars leaders and managers are looking for ways to mitigate this trauma without having explicit knowledge or understanding of how to deal with it despite the increasing need to better understand organizational trauma and how to address it this body of research has not played a prominent role in mainstream organization and management theory role of leadership in facilitating healing and renewal in times of organizational trauma and change examines the importance of dealing with trauma in organizations and related topics of interest the chapters highlight global perspectives and present new and significant information and observations about organizational trauma and offer insights derived from a solidly and sufficiently broad knowledge base of theory research and practice this book will also grant a basis of understanding trauma its antecedents and outcomes as well as how it can be mitigated and will provide information and insights regarding organizational trauma and how it interacts with and influences other organizational phenomena this book is ideally intended for managers human resources officers academicians practitioners executives professionals researchers and students interested in examining the ways in which organizational trauma is impacting the workplace

in this book author george manus has collected 1001 words for the road from his series of 10 books by the same name which in both format and content are well suited as reading matter while travelling each of the 10 books are presenting short reflections and puns in both english and norwegian he has named this book food for thought with subtitle 1001 short reflections it contains only the english reflections the table of contents which is in alphabetical order provides easy access to his 1001 reflections most of them have been written over the past few years while some were put on paper already back in the late 1980s he is fully aware that quantity does not in any way mean quality but as he says who judges good from less good and bad if adopted literary norms are applied i suppose it is simple but if one isn't to judge based on given norms i suppose it becomes a question of who likes what if you accept that everyone is right based on their prerequisites which is hard to deny maybe you end up with something for everyone he says that all his short reflection are expressions of his spontaneous thoughts and opinions based on his prerequisites when they were written happy reading january 2021



in a fair trial the foundations of breast cancer author dr steven narod uses knowledge and expertise amassed from his career as a physician and breast cancer researcher to deliver keen insight into the many paradoxes that arise when health care professionals attempt to predict the course of breast cancer treatment applying decades of careful observation and study of patients a fair trial goes beyond conventional thinking to explain the variation in cancer outcomes readers familiar with cancer treatment may be surprised by the results a fair trial is a touchstone for other scientists and physicians to question the current paradigms of breast cancer screening and treatment and will lead to new ideas that will help physicians researchers and patients move forward towards a cure

this research topic is the second volume of the community series extremophiles microbial genomics and taxogenomics please see the first volume here extreme habitats exist across the globe and span over three quarters of our planet they can be widely different from a physical chemical perspective as they include diverse types of extreme such as temperature ph salinity radiation pressure low water activity low nutrient availability etc organisms capable of adjusting surviving or thriving in those habitats which are so hostile that they were previously thought to be adverse or lethal for life are called extremophiles

this reference book which is the second volume of targeting oxidative stress in cancer explores oxidative stress as the potential therapeutic target for cancer therapy the initial chapters discuss the molecular mechanisms of oxidative stress and its effects on different signaling pathways subsequently the sections examine the impact of redox signaling on tumor cell proliferation and consider the therapeutic potential of dietary phytochemicals and nutraceuticals in reactive oxygen species ros induced cancer in turn it examines the evidence supporting the use of vitamin c in cancer management before presenting various synthetic and natural compounds that have therapeutic implications for oxidative stress induced cancer it also explores the correlation between non coding rna and oxidative stress furthermore the book summarizes the role of stem cells in ros induced cancer therapy and reviews the therapeutic applications of nanoparticles to alter redox haemostasis in cancer cells lastly it explores heat shock proteins ubiquitin ligases and probiotics as potential therapeutic agents in ros mediated cancer this book is a useful resource for basic and translational scientists as well as clinicians interested in the field of oxidative stress and cancer therapy

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# 122 cm to in: A Comprehensive Guide to Metric-Imperial Conversion

Converting measurements between the metric system (centimeters, meters, etc.) and the imperial system (inches, feet, yards, etc.) is a common task in various fields, from everyday life to engineering and manufacturing. Understanding how to perform these conversions accurately is crucial for avoiding errors and ensuring precise measurements. This article focuses specifically on converting 122 centimeters (cm) to inches (in), explaining the process in detail and providing practical examples.

**I. Understanding the Conversion Factor**  
Q: What is the fundamental relationship between centimeters and inches? A: The core of the conversion lies in the established relationship between centimeters and inches: 1 inch is approximately equal to 2.54 centimeters. This means that to convert centimeters to inches, we need to divide the value in centimeters by 2.54. Conversely, to convert inches to centimeters, we multiply the value in inches by 2.54.

**II. Calculating 122 cm to Inches**  
Q: How do we calculate the conversion of 122 cm to inches? A: Using the conversion factor, we can easily calculate:  $122 \text{ cm} / 2.54 \text{ cm/in} \approx 48.03 \text{ inches}$ . Therefore, 122 centimeters is approximately equal to 48.03 inches. The slight discrepancy from a whole number is due to the inherent approximation in the conversion factor (2.54 is a rounded value).

**III. Real-World Applications: Why This Conversion Matters**  
Q: Where might we encounter the need to convert 122 cm to inches in real life? A: The need to convert between centimeters and inches frequently arises in various scenarios:

- International Trade:** Manufacturers often provide dimensions in both metric and imperial units to cater to global markets. For instance, a company exporting clothing might list a shirt's sleeve length as both 60cm and 23.6 inches.
- Home Improvement:** If you're buying materials for a DIY project, you might encounter measurements in both systems. For example, you might need to convert the dimensions of a piece of furniture (measured in centimeters in the online store) to inches to ensure it fits your space.
- Travel:** Road signs, maps, and distances in certain countries might use different measurement systems. Converting between cm and inches becomes necessary for accurate planning and navigation.
- Medicine and Healthcare:** Height and other body measurements are often recorded in both centimeters and inches, depending on the country and healthcare system.
- Automotive:** Some car parts or specifications may be given in one system or the other, requiring conversion for proper fitment or maintenance.

**IV. Precision and Rounding**  
Q: How important is precision in this conversion, and how should we round the result? A: The level of precision required depends on the context. For many everyday applications, rounding to one or two decimal places (as we did above, 48.03 inches) is sufficient. However, for tasks requiring high accuracy, such as engineering or manufacturing, more decimal places might be necessary, or even using the exact value of 2.54 cm/in without rounding during the calculation. Always consider the tolerance acceptable for your particular application.

**V. Using Online**

Converters and Calculators Q: Are there easier ways to convert centimeters to inches besides manual calculation? A: Yes, numerous online converters and calculators are available for quick and accurate conversions. These tools eliminate manual calculations and reduce the risk of errors. Simply search for "cm to inches converter" online, input the value in centimeters, and the tool will provide the equivalent in inches. VI. Conclusion Converting 122 centimeters to inches is a straightforward process involving division by the conversion factor 2.54 cm/in. This seemingly simple conversion has significant practical applications across various fields, highlighting the importance of understanding and applying these unit conversions accurately. The level of precision needed varies depending on the specific application; however, using readily available online tools can streamline the process and minimize errors. Frequently Asked Questions (FAQs): 1. Q: Can I convert from inches to centimeters using the same factor? A: Yes, you can. Multiply the value in inches by 2.54 to obtain the equivalent in centimeters. 2. Q: What if I need to convert a larger number of centimeters? A: The same conversion factor (2.54) applies regardless of the magnitude of the number. Simply divide the number of centimeters by 2.54. 3. Q: Are there other units of length I might need to convert between? A: Yes, you might encounter conversions involving millimeters, meters, kilometers, feet, yards, and miles. Each requires a specific conversion factor. 4. Q: What is the difference between the exact value of 1 inch and the approximate value of 2.54 cm? A: The value 2.54 cm/in is an approximation. The exact value is defined as 2.54 cm. The difference is usually negligible for everyday conversions. 5. Q: How can I improve my accuracy when converting units manually? A: Use a calculator with a high number of decimal places to minimize rounding errors. Double-check your calculations and consider using online converters for verification.

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