

Bioinformatics Methods And Applications Rastogi

Optical Holography Handbook of Optical Engineering BIOINFORMATICS, FIFTH EDITION Gastrointestinal Agents—Advances in Research and Application: 2013 Edition Approaches and Applications of Deep Learning in Virtual Medical Care Introduction to Optical Metrology Algae Biomass: Characteristics and Applications Soft Computing: Theories and Applications Food Processing The Smart Cyber Ecosystem for Sustainable Development Bioinformatics and Medical Applications Cellular and Biochemical Science Holography for the New Millennium Yoga and Meditation Implementation and Application of Automata Bioinformatik Emergent Converging Technologies and Biomedical Systems The Effect of the Ionosphere on Communication, Navigation, and Surveillance Systems Springer Handbook of Experimental Solid Mechanics Handbook of Research on Interdisciplinary Studies on Healthcare, Culture, and the Environment Transformation of Knowledge, Information and Data: Theory and Applications Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Nanofertilizer Delivery, Effects and Application Methods Multimedia Technologies and Applications for the 21st Century Encyclopedia of Data Science and Machine Learning Handbook of Laser Technology and Applications Nontuberculous Mycobacteria (NTM) Structural Monitoring with Fiber Optic Technology Artificial Intelligence Paradigms for Smart Cyber-Physical Systems Advanced Optics Using Aspherical Elements Methods and Applications for Advancing Distance Education Technologies: International Issues and Solutions Intercellular Signaling Peptides and Proteins—Advances in Research and Application: 2012 Edition Building Embodied AI Systems: The Agents, the Architecture Principles, Challenges, and Application Domains Artificial Intelligence Techniques for Advanced Computing Applications Non-thermal Processing of Foods Industrial Applications of Glycoside Hydrolases A Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems Chemical Solution Synthesis for Materials Design and Thin Film Device Applications International Conference on Vibration Measurements by Laser Techniques: Advances and Applications Temperate Horticulture P. Hariharan Daniel Malacara RASTOGI, S.C. Jhanjhi, Noor Zaman Rajpal S. Sirohi Katarzyna Chojnacka Kanad Ray Kshirod Kumar Dash Pardeep Kumar A. Suresh G. Tripathi Jacques Ludman Sachi Nandan Mohanty Oscar H. Ibarra Arthur M. Lesk Shruti Jain John M. Goodman William N. Sharpe, Jr. Mervi [?], Mika Markus Bommel, Patrick van Wang, John Kamel A Abd-Elsalam Borko Furht Wang, John Chunlei Guo Ali Akbar Velayati Raymond M. Measures Lubach, Ashish Kumar Bernhard Braunecker Syed, Mahbubur Rahman Pethuru Raj D. Jude Hemanth O. P. Chauhan Smriti Shrivastava Pardeep Kumar Soumen Das Dr. Satish K. Sharma

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Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems Chemical Solution Synthesis for Materials Design and Thin Film Device Applications International Conference on Vibration Measurements by Laser Techniques: Advances and Applications Temperate Horticulture P. Hariharan Daniel Malacara RASTOGI, S.C. Jhanjhi, Noor Zaman Rajpal S. Sirobi Katarzyna Chojnacka Kanad Ray Kshirod Kumar Dash Pardeep Kumar A. Suresh G. Tripathi Jacques Ludman Sachin Nandan Mohanty Oscar H. Ibarra Arthur M. Lesk Shrutika Jain John M. Goodman William N. Sharpe, Jr. Mervin [2] , Mika MarkuBommel, Patrick van Wang, John Kamel A Abd-Elsalam Borko Furht Wang, John Chunlei Guo Ali Akbar Velayati Raymond M. Measures Luhach, Ashish Kumar Bernhard Braunecker Syed, Mabbubur Rahman Pethuru Raj D. Jude Hemanth O. P. Chauhan Smriti Shrivastava Pardeep Kumar Soumen Das Dr. Satish K. Sharma

this 1996 book is an expanded edition of one of the best known introductions to optical holography

this handbook explains principles processes methods and procedures of optical engineering in a concise and practical way it emphasizes fundamental approaches and provides useful formulas and step by step worked out examples to demonstrate applications and clarify calculation methods the book covers refractive reflective and diffractive optical components lens optical devices modern fringe pattern analysis optical metrology fourier optics and optical image processing electro optical and acousto optical devices spatial and spectral filters optical fibers and accessories optical fabrication and more it includes over 2 000 tables flow charts graphs schematics drawings photographs and mathematical expressions

designed as a comprehensive text for students and professionals pursuing careers in the fields of bioinformatics molecular biology pharmacy and drug research the fifth edition continues to offer a fascinating and authoritative treatment of the entire spectrum of bioinformatics covering a wide range of high throughput technologies the content can be used for four core courses bioinformatics fundamentals genomics proteomics and drug discovery and design the fifth edition takes a completely new pedagogical approach and the book is divided into eight distinct units for the ease of learning bioinformatics fundamentals sequence alignment phylogenetic analysis genomics protein structure and function drug discovery methods drug design and development and integrative topics accordingly all the chapters are revised and updated in the new edition besides introduction of seven new chapters and another seven completely re written chapters as a student friendly text it embodies several pedagogical features such as detailed examples numerous tables a large number of diagrams flow charts and web resources the book in its present edition should prove an invaluable asset to the students and researchers in the fields of bioinformatics biotechnology computer aided drug design information technology medical diagnostics molecular biology and pharmaceutical sciences new to the fifth edition re written chapters biological database search and data retrieval pair wise alignment of sequences pssms and hidden markov models gene mapping gene prediction protein structure overview and protein structure prediction inclusion of new chapters scoring matrices gene sequencing regulatory elements prediction comparative genomics protein structure databases protein function prediction and potential drug targets key features covers the field of bioinformatics in a complete and integrated approach moving from the fundamentals to theory and practical applications state of the art technologies for gene identification molecular modeling and monitoring of cellular processes data mining data curation and analysis classification interpretation and efficient structure determination of genomes and proteomes companion website provides useful resources for the teachers as well as for the students so visit learning centre phindia com bioinformatics mendiratta rastogi to have access of lecture notes solutions manual mcqs problems set for practice glossary of important terms etc target audience ug and pg students of bioinformatics biotechnology molecular biology and pharmacy

gastrointestinal agents advances in research and application 2013 edition is a scholarly paper that delivers timely authoritative and intensively focused information about zzzadditional research in a compact format the editors have built gastrointestinal agents advances in research and application 2013 edition on the vast information databases of scholarly news you can expect the information about zzzadditional research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of gastrointestinal agents advances in research and application 2013 edition has been produced by the world's leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written

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the recent advancements in the machine learning paradigm have various applications specifically in the field of medical data analysis research has proven the high accuracy of deep learning algorithms and they have become a standard choice for analyzing medical data especially medical images video and electronic health records deep learning methods applied to electronic health records are contributing to understanding the evolution of chronic diseases and predicting the risk of developing those diseases approaches and applications of deep learning in virtual medical care considers the applications of deep learning in virtual medical care and delves into complex deep learning algorithms calibrates models and improves the predictions of the trained model on medical imaging covering topics such as big data and medical sensors this critical reference source is ideal for researchers academicians practitioners industry professionals hospital workers scholars instructors and students

introduction to optical metrology examines the theory and practice of various measurement methodologies utilizing the wave nature of light the book begins by introducing the subject of optics and then addresses the propagation of laser beams through free space and optical systems after explaining how a gaussian beam propagates how to set up a collimator to get a collimated beam for experimentation and how to detect and record optical signals the text discusses interferometry speckle metrology moiré phenomenon photoelasticity and microscopy describes the different principles used to measure the refractive indices of solids liquids and gases presents methods for measuring curvature focal length angle thickness velocity pressure and length details techniques for optical testing as well as for making fiber optic and mems based measurements depicts a wave propagating in the positive z direction by $e^{i(kz - \omega t)}$ as opposed to $e^{i(kz + \omega t)}$ featuring exercise problems at the end of each chapter introduction to optical metrology provides an applied understanding of essential optical measurement concepts techniques and procedures

this book is a compendium of knowledge on the useful properties of algae in the context of application as a useful component of innovative natural products it presents all aspects of industrial applications of macroalgae biomass derived from the natural environment despite many interesting characteristics algae are still regarded as undervalued raw material therefore present in the following chapters are not only environmental benefits arising from the development of excessive algal biomass but also the distribution and biology of algae in natural conditions in reservoirs methods of obtaining extracts from biomass of algae for industrial purposes furthermore it also includes topics such as the use of biomass and algae extracts for the industrial purposes in animal breeding and for agricultural purposes as well as the economic aspects of algae biomass harvesting for industrial purposes the book is intended for a wide audience interested in new methods of obtaining the biomass from the natural environment for industrial purposes and the manufacture of products based on bioactive substances obtained from the environment

the book focuses on soft computing and its applications to solve real world problems occurring in different domains ranging from medicine and healthcare and supply chain management to image processing and cryptanalysis it includes high quality papers presented in the international conference on soft computing theories and applications socta 2017 organized by bundelkhand university jhansi india offering significant insights into soft computing for teachers and researchers alike the book inspires more researchers to work in the field of soft computing

non thermal operations in food processing are an alternative to thermal operations and similarly aimed at retaining the quality and organoleptic properties of food products this volume covers different non thermal processing technologies such as high pressure processing ultrasound ohmic heating pulse electric field pulse light membrane processing cryogenic freezing nanofiltration and cold plasma processing technologies the book focuses both on fundamentals and on recent advances in non thermal food processing technologies it also provides information with the description and results of research into new emerging technologies for both the academy and industry key features presents engineering focus on non thermal food processing technologies discusses sub classification for recent trends and relevant industry

information examples different current research oriented results are included as a key parameter covers high pressure processing pulse electric field pulse light technology irradiation and ultrasonic techniques includes mathematical modeling and numerical simulations food processing advances in non thermal technologies is aimed at graduate students professionals in food engineering food technology and biological systems engineering

the smart cyber ecosystem for sustainable development as the entire ecosystem is moving towards a sustainable goal technology driven smart cyber system is the enabling factor to make this a success and the current book documents how this can be attained the cyber ecosystem consists of a huge number of different entities that work and interact with each other in a highly diversified manner in this era when the world is surrounded by many unseen challenges and when its population is increasing and resources are decreasing scientists researchers academicians industrialists government agencies and other stakeholders are looking toward smart and intelligent cyber systems that can guarantee sustainable development for a better and healthier ecosystem the main actors of this cyber ecosystem include the internet of things iot artificial intelligence ai and the mechanisms providing cybersecurity this book attempts to collect and publish innovative ideas emerging trends implementation experiences and pertinent user cases for the purpose of serving mankind and societies with sustainable societal development the 22 chapters of the book are divided into three sections section i deals with the internet of things section ii focuses on artificial intelligence and especially its applications in healthcare whereas section iii investigates the different cyber security mechanisms audience this book will attract researchers and graduate students working in the areas of artificial intelligence blockchain internet of things information technology as well as industrialists practitioners technology developers entrepreneurs and professionals who are interested in exploring designing and implementing these technologies

bioinformatics and medical applications the main topics addressed in this book are big data analytics problems in bioinformatics research such as microarray data analysis sequence analysis genomics based analytics disease network analysis techniques for big data analytics and health information technology bioinformatics and medical applications big data using deep learning algorithms analyses massive biological datasets using computational approaches and the latest cutting edge technologies to capture and interpret biological data the book delivers various bioinformatics computational methods used to identify diseases at an early stage by assembling cutting edge resources into a single collection designed to enlighten the reader on topics focusing on computer science mathematics and biology in modern biology and medicine bioinformatics is critical for data management this book explains the bioinformatician s important tools and examines how they are used to evaluate biological data and advance disease knowledge the editors have curated a distinguished group of perceptive and concise chapters that presents the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to healthcare applying deep learning techniques for data driven solutions in health information allows automated analysis whose method can be more advantageous in supporting the problems arising from medical and health related information audience the primary audience for the book includes specialists researchers postgraduates designers experts and engineers who are occupied with biometric research and security related issues

the fundamental aim underlying cellular and biochemical sciences is to emphasize diversified topics of current interest to postgraduate students pursuing different courses in the area of biological sciences including zoology botany biochemistry and biotechnology the text is also relevant to the students of life sciences biosciences cell biology bioengineering and pharmacology a total of 58 topics have been incorporated in the book and some of the topics are rarely found in other books of biology new information has been introduced which updates existing knowledge and enables the book to justify its claim as the most comprehensive text in the sphere of cellular and biochemical sciences at the postgraduate and competitive examination levels each and every chapter has been designed in lucid and readable manner there are references suggested readings long questions and objective questions at the end of chapters for revision of topics

a half century after its invention and after several waves of optimism and pessimism holography is now poised to achieve widespread application holograms are now being used as tools in many industries

from heads up displays in aircraft to directing interconnections in massively parallel computing acoustic holograms can provide three dimensional images of internal organs without surgery or dangerous radiation and holography forms the basis of several other forms of nondestructive testing this book provides both a review of the development of the field and of the applications likely to be important in the 21st century it begins with a review by dennis leith one of the inventors of holography or re inventors after denis gabor s original work in 1947 two chapters discuss the frontiers of holographic imaging including color holograms and stereographic movies several subsequent chapters describe novel methods of forming and viewing holographic images including the use of low coherence sources or even computers to generate the holograms the book concludes with a sampling of new applications of holography including its uses in improving the efficiency of solar cells in nondestructive testing in improving the coherence properties of light in data storage and in investigations of fundamental physics

this new book provides a holistic insight into the perennial bliss of practicing yoga on body mind and spirit highlighting ways to achieve optimum mental and spiritual health the book begins by exploring the benefits of practicing yoga on social life and humanity discussing the impact of yoga on socioemotional development and focusing on ideas of happiness it covers certain yogic postures that help to sustain health and enhance the level of happiness in life it looks at the benefits of yoga and mindfulness practices for specific health issues such as polycystic ovarian syndrome and diabetes it also considers the beneficial impact of yoga meditation practices and ayurvedic herbs on the improvement of brain power of children for enhancing the quality of life of adolescents for arresting cognitive impairment and promoting well being among institutionalized seniors and more

this book constitutes the refereed proceedings of the 11th international conference on implementation and application of automata ciao 2006 held in taipei taiwan in august 2006 the 22 revised full papers and 7 revised poster papers presented together with the extended abstracts of 3 invited lectures were carefully reviewed and selected from 76 submissions the papers cover various topics in the theory implementation and applications of automata and related structures

bioinformatik ist eine wissenschaftsdisziplin und ein methodenfeld das in der heutigen forschung und klinischen anwendung zu einem der wichtigsten werkzeuge der informationssammlung dateninterpretation und wissenschaftung geworden ist das vorliegende lehrbuch kommt zur rechten zeit und erf?llt den gro?en bedarf nach einer grundlegenden und sorgf?ltig konzipierten einf?hrung in diesen fundamentalen zweig der modernen lebenswissenschaften als ein pionier der nutzung von bioinformatikverfahren in der forschung bringt arthur lesk seine ganze erfahrung und fachkenntnis in diese darstellung ein das buch zielt darauf ab ein verst?ndnis des biologischen hintergrunds der bioinformatik mit der entwicklung der notwendigen computerfertigkeiten zu kombinieren ohne auf komplizierte computerwissenschaftliche methoden oder programmierkenntnisse angewiesen zu sein unterst?tzt und ermutigt das anregend geschriebene buch den leser bei der ad?quaten anwendung der vielen bioinformatikwerkzeuge zahlreiche ?bungungen und aufgaben sowie innovative webbasierte problemstellungen webleme www fragen fordern den studenten zur aktiven teilnahme statt und erlauben dem dozenten oder kursleiter das material auf die spezifischen bed?rfnisse der lernenden zuzuschneiden die begleitende englischsprachige website des originalverlags f?hrt von den im buch pr?sentierten aufgaben und programmen zu interaktiven links und erm?glicht es dem leser somit ein praktisches verst?ndnis und wertsch?tzung der macht der bioinformatik als forschungswerkzeug zu entwickeln unter der url oup.com/uk/lesk/bioinf sind folgende angebote abzurufen links zu allen im buch erw?hnten websites grafiken in hoher qualitat einschlie?lich farbiger animationen von strukturschemata material aus dem buch das sinnvollerweise in computerlesbarer form zur verf?gung steht etwa daten f?r die aufgaben und ?bungungen sowie alle programme

the book contains proceedings of the international conference on emergent converging technologies and biomedical systems etbs 2022 it includes papers on wireless multimedia networks green wireless networks electric vehicles biomedical signal processing and instrumentation wearable sensors for health care monitoring biomedical imaging bio materials modeling and simulation in medicine biomedical and health informatics the book will serve as a useful guide for educators researchers and developers working in the area of signal processing imaging computing instrumentation artificial intelligence and their related

applications this book will also provide support and aid to the researchers involved in designing the latest advancements in healthcare technologies

the springer handbook of experimental solid mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures the emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics new exciting topics are included on biological materials mems and nems nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience

as healthcare culture and the environment remain crucial aspects of modern society the current issues and opportunities within each sector must be examined and considered in order to ensure their success in the future these critical fields should be studied in relation to each other as they must work in tandem to create a better society the handbook of research on interdisciplinary studies on healthcare culture and the environment presents innovative ideas and emerging research to highlight critical trends focusing on the relationship between healthcare environmental wellbeing and society and culture covering a range of topics such as sustainability leadership and food security this reference work is ideal for industry professionals researchers academicians practitioners instructors and students

transformation of knowledge information and data theory and applications considers transformations within the context of computing science and information science as they are essential in changing organizations this book not only considers transformations of structured models rather the transformation of instances i e the actual contents of those structures is addressed as well

in recent years the science of managing and analyzing large datasets has emerged as a critical area of research in the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data

nanofertilizer delivery effects and application methods explores the science of nutrient nanoformulation a potential tool toward sustainable and climate sensitive crops wide spread use of chemical fertilizers has been shown to causes significant damage to soil structure mineral cycles soil microbial flora plants and creating human health risk both immediately and for future generations through methods that include targeted distribution and gradual or controlled release nanostructured fertilizers can improve nutrient usage efficiency according to recent studies through environmental cues and biological demands nano fertilizers can respond to specifical challenges and boost agricultural yield by increasing the rate of seed germination seedling growth photosynthetic activity nitrogen metabolism and carbohydrate and protein synthesis nanofertilizer delivery effects and application methods discusses the potential agricultural benefits of nanofertilizers from coverage of their formulation and delivery to application plant uptake translocation and destiny and their overall effect on plant physiology and metabolism this book is ideal for researchers in industry and academia highlights types uses and advantages of a wide range and variety of nanofertilizers on agri food sectors looks at current practices their challenges and future development opportunities includes methods and applications for real world insights

multimedia technologies and applications for the 21st century visions of world experts presents contributions from leading researchers and experts describing their current research and their views of the future trends in the field the book consists of thirteen chapters in five parts these chapters tackle a number of critical issues in distributed multimedia systems and applications from vlsi processors that support multimedia and multimedia servers through multimedia databases and multimedia networks and communications to merging multimedia applications only a few years ago multimedia seemed like a brand

new research field and an emerging new industry today at the edge of the 21st century multimedia research is coming of age and the multimedia industry has significantly grown with the total market estimated to be about 50 billion several years ago it was felt that the digital media revolution had just started however the seeds had been sown long before fundamental technologies such as interactive laser disks video games and electronic encyclopedias were invented in the 1970s and 80s they represented the seeds for current hot applications such as digital libraries video on demand interactive television and videoconferencing another aspect of the digital media revolution is the formation of a new media industry composed of computer entertainment communication and consumer electronics companies many industry segments are currently involved in creating new products and services positioning themselves for the 21st century they include telephone cable and satellite tv companies communication equipment companies tv and radio broadcasters on line internet service providers cable channels movie studios record companies book publishers cd rom title creators internet tool vendors multimedia software tools companies computer companies general software tools companies computer add on vendors semiconductor vendors and consumer electronics vendors multimedia technologies and applications for the 21st century visions of world experts should stimulate the curiosity of its readers and inspire new technological breakthroughs in this exciting field it serves as a valuable reference for system designers engineers programmers and managers who are involved in multimedia systems the internet and their applications this book can also be used as a textbook for advanced courses on multimedia in engineering curricula

big data and machine learning are driving the fourth industrial revolution with the age of big data upon us we risk drowning in a flood of digital data big data has now become a critical part of both the business world and daily life as the synthesis and synergy of machine learning and big data has enormous potential big data and machine learning are projected to not only maximize citizen wealth but also promote societal health as big data continues to evolve and the demand for professionals in the field increases access to the most current information about the concepts issues trends and technologies in this interdisciplinary area is needed the encyclopedia of data science and machine learning examines current state of the art research in the areas of data science machine learning data mining and more it provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning emphasizing emerging theories principals models processes and applications to inspire and circulate innovative findings into research business and communities covering topics such as benefit management recommendation system analysis and global software development this expansive reference provides a dynamic resource for data scientists data analysts computer scientists technical managers corporate executives students and educators of higher education government officials researchers and academicians

this comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications this forth volume covers laser applications in the medical metrology and communications fields key features offers a complete update of the original bestselling work including many brand new chapters deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3d printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications this handbook is the ideal companion for scientists engineers and students working with lasers including those in optics electrical engineering physics chemistry biomedicine and other relevant areas

nontuberculous mycobacteria ntm microbiological clinical and geographical distribution is a complete reference that stimulates a greater understanding of ntm infections sections cover microbiologic and molecular diagnostic tools drug susceptibility tests human genetic susceptibility prevalence and incidence studies clinical and radiological presentations and clinical trials for antibiotic therapy with the incidence rate of ntm infections increasing globally during the last decade significant mortality and morbidity must be addressed this important reference will provide research scientists clinical microbiologists hospital diagnostic technicians and post graduate medical and science students with information on the epidemiology prevalence microbiology and clinical aspects of ntm highlights new findings in the

epidemiological distribution and new diagnosis and treatment protocol of mycobacterial infections debates new advances in the detection of ntm demonstrates the distribution of ntm in the environment and its relationship with human infection using a geographical information system gis includes new radiological findings in non tuberculous mycobacterial infections in the lung using ct and pet scan imaging

this book is the first to address the field of structurally integrated fiber optic sensors fiber optic sensors embedded within materials and systems are able to measure a variety of parameters i e temperature vibration deformation strain etc that allows for real time non destructive evaluation examples include the following monitoring structural fatigue in aging aircraft or loads in bridge structures in more advanced applications fiber optic sensors control actuators that allow materials to adapt to their environment this gives rise to the names smart intelligent and or adaptive materials or structures structural monitoring with fiber optic technology is the first single author book on the new field of fiber optic structural sensing as such it provides coverage of the fundamentals of the technology a coherent and systematic discussion on the most important aspects of the subject a broad view of the subject while retaining a degree of focus on those advances most significant in terms of their future potential particularly in regard to broad implementation of the technology the book provides an introduction to the relevant value to structural monitoring it also highlights the advantages of fiber optic based sensors over conventional electrical measurement technology the book richly illustrates the subject matter with 615 figures and provides many examples of fiber optic structural sensing including a detailed overview of a number of major field site applications most of these large scale applications are drawn from the civil engineering community as they have been the first to strongly embrace fiber optic structural monitoring this is especially true for bridges where innovative new designs and the use of fiber reinforced polymer composite materials to replace steel represents a major advance that is expected to revolutionize the construction industry examples include new bridges which are serving as testbeds for these new materials and are instrumented with arrays of fiber optic structural sensors in one case this state of the art monitoring system permits engineers at a distant site to track the response of the bridge to traffic loads and keep an eye on the long term performance of the new materials fiber optic structural sensing technology is equally applicable to other industrial sectors such as the aerospace and marine industries indeed several examples of ships being instrumented with arrays of fiber optic sensors are also included the author directed one of the leading laboratories in the development of this technology and its application to civil engineering provides a strong concise foundation in the basics of the technology includes many examples of the application of the technology including many major field site case studies richly illustrated with 615 figures many redrawn to make them easier to understand also includes over 600 references written in a style designed to help the reader unfamiliar with fiber optic technology appreciate what can be accomplished with this new form of structural monitoring

cyber physical systems cps have emerged as a unifying name for systems where cyber parts i e the computing and communication parts and physical parts are tightly integrated both in design and during operation such systems use computations and communication deeply embedded in and interacting with human physical processes as well as augmenting existing and adding new capabilities as such cps is an integration of computation networking and physical processes embedded computers and networks monitor and control the physical processes with feedback loops where physical processes affect computations and vice versa the economic and societal potential of such systems is vastly greater than what has been realized and major investments are being made worldwide to develop the technology artificial intelligence paradigms for smart cyber physical systems focuses on the recent advances in artificial intelligence based approaches towards affecting secure cyber physical systems this book presents investigations on state of the art research issues applications and achievements in the field of computational intelligence paradigms for cps covering topics that include autonomous systems access control machine learning and intrusion detection and prevention systems this book is ideally designed for engineers industry professionals practitioners scientists managers students academicians and researchers seeking current research on artificial intelligence and cyber physical systems

modern optical systems rely on leading edge production technologies especially when using aspherical optical elements due to the inherent complexity of aspheres all efforts to push the technological limits are risky thus to minimize risk clear decisions based on a good understanding of technology are indispensable this compendium is written as an optical technology reference book for development and production engineers with contributions from worldwide experts this book aids in mitigating the risk in adopting new asphere production technologies

provides communication technologies intelligent technologies and quality educational pedagogy for advancing distance education for both teaching and learning

intercellular signaling peptides and proteins advances in research and application 2012 edition is a scholarlyeditions ebook that delivers timely authoritative and comprehensive information about intercellular signaling peptides and pr the editors have built intercellular signaling peptides and proteins advances in research and application 2012 edition on the vast information databases of scholarlynews you can expect the information about intercellular signaling peptides and pr in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of intercellular signaling peptides and proteins advances in research and application 2012 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

this book is primed to demystify the emerging and evolving trend of embodied systems it explains how these unique systems facilitate establishing smarter environments such as multi specialty hospitals manufacturing floors warehouses retail stores defense zones eating joints entertainment plazas etc in detail for the benefit of our esteemed readers to get a complete and actionable understanding of any mission critical environment we must deploy embodied systems these systems such as robots drones etc are physical entities that are embedded and empowered with software systems they interact with the environment in real time providing context aware services there are chapters exclusively delineating the technologies behind the realization and deployment of such enigmatic systems the prominent industrial use cases are explained in the latter chapters

this book features a collection of high quality research papers presented at the international conference on advanced computing technology ictact 2020 held at the srm institute of science and technology chennai india on 23 24 january 2020 it covers the areas of computational intelligence artificial intelligence machine learning deep learning big data and applications of artificial intelligence in networking iot and bioinformatics

this book presents the latest developments in the area of non thermal preservation of foods and covers various topics such as high pressure processing pulsed electric field processing pulsed light processing ozone processing electron beam processing pulsed magnetic field ultrasonics and plasma processing non thermal processing of foods discusses the use of non thermal processing on commodities such as fruits and vegetables cereal products meat fish and poultry and milk and milk products features provides latest information regarding the use of non thermal processing of food products provides information about most of the non thermal technologies available for food processing covers food products such as fruits and vegetables cereal products meat fish and poultry and milk and milk products discusses the packaging requirements for foods processed with non thermal techniques the effects of non thermal processing on vital food components enzymes and microorganisms is also discussed safety aspects and packaging requirements for non thermal processed foods are also presented rounding out coverage of this technology are chapters that cover commercialization regulatory issues and consumer acceptance of foods processed with non thermal techniques the future trends of non thermal processing are also investigated food scientists and food engineers food regulatory agencies food industry personnel and academia including graduate students will find valuable information in this book food product developers and food processors will also benefit from this book

this book gathers selected studies on the industrial applications of glycoside hydrolases ghs presenting an updated classification of these enzymes and discussing their structure mechanisms and various approaches to improve their catalytic efficiency further it explains the various industrial applications of glycoside hydrolases in food effluent treatment biofuel production and the paper and pulp industries lastly the book provides a comparative analysis of glycoside hydrolases and discusses the role of metagenomics in the discovery of industrially important enzymes as such it is a thought provoking instructive and informative

resource for biochemists enzymologists molecular biologists and bioprocess technologists

this book aims at offering a unique collection of ideas and experiences mainly focusing on the main streams and merger of artificial intelligence ai and the internet of things iot for a wide slice of the communication and networking community in the era when the world is grappling with many unforeseen challenges scientists and researchers are envisioning smart cyber systems that guarantee sustainable development for a better human life the main contributors that destined to play a huge role in developing such systems among others are ai and iot while ai provides intelligence to machines and data by identifying patterns developing predictions and detecting anomalies iot performs as a nerve system by connecting a huge number of machines and capturing an enormous amount of data ai enabled iot therefore redefines the way industries businesses and economies function with increased automation and efficiency and reduced human interaction and costs this book is an attempt to publish innovative ideas emerging trends implementation experience and use cases pertaining to the merger of ai and iot the primary market of this book is centered around students researchers academicians industrialists entrepreneurs and professionals working in electrical computer engineering it telecom electronic engineering and related fields the secondary market of this book is related to individuals working in the fields such as finance management mathematics physics environment mechatronics and the automation industry

chemical solution synthesis for materials design and thin film device applications presents current research on wet chemical techniques for thin film based devices sections cover the quality of thin films types of common films used in devices various thermodynamic properties thin film patterning device configuration and applications as a whole these topics create a roadmap for developing new materials and incorporating the results in device fabrication this book is suitable for graduate undergraduate doctoral students and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes provides the different wet chemical routes for materials synthesis along with the most relevant thin film structured materials for device applications discusses patterning and solution processing of inorganic thin films along with solvent based processing techniques includes an overview of key processes and methods in thin film synthesis processing and device fabrication such as nucleation lithography and solution processing

temperate horticulture is a very important component of horticulture as it is only confined to the hilly regions of a country for fruit crops it represents a group which is physiologically diverse from the sub tropical and tropical fruit crops grown in other regions for vegetables and floriculture it has immense potential for the keeping the nation well supplied with off season and exotic vegetables and flowers all the year round this book being published to mark the centenary year of the indian agricultural research institute 1905 2005 strives to highlight the status of temperate horticulture in india articles on biotechnological and bioinformatics genetic resources and manipulation cropping patterns drip irrigation hill horticulture and economics of temperate horticulture contributed by scientists from iari dr y s parmar university of horticulture and forestry nbpgr ciphc cpri and various rrs s of iari nbpgr and icar research complex for eastern and neh regions the book will prove as a complete handbook of temperate horticulture as it will not only serve as a reference material for research workers in horticulture but will also play a vital role in combating problems and planning future strategies in the field of horticulture

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Decoding the Metric Mystery: Converting 47 Centimeters to Inches

The ability to seamlessly convert between metric and imperial units is a valuable skill in our increasingly globalized world. Whether you're working on a DIY project, interpreting international specifications, or simply understanding measurements in different contexts, the need to convert between systems frequently arises. This article focuses on a specific, yet representative, conversion: transforming 47 centimeters (cm) into inches (in). We'll explore various methods, address common stumbling blocks, and provide a clear understanding of the process.

Understanding the Fundamentals: Metric vs. Imperial

Before delving into the conversion, it's crucial to grasp the fundamental difference between the metric and imperial systems. The metric system (International System of Units or SI) is based on powers of ten, making conversions relatively straightforward. The imperial system, on the other hand, uses a less organized collection of units, often requiring more complex calculations for conversions. This inherent difference is the root of the challenge many face when converting between the two. Understanding this difference is the first step towards mastering unit conversion.

Method 1: Using the Conversion Factor

The most common and efficient method for converting centimeters to inches involves using the conversion factor. One inch is approximately equal to 2.54 centimeters. This means we can establish a ratio: 1 inch = 2.54 cm. To convert 47 cm to inches, we can set up a proportion: $x \text{ inches} / 47 \text{ cm} = 1 \text{ inch} / 2.54 \text{ cm}$. Solving for x (the number of inches): $x \text{ inches} = (47 \text{ cm} \times 1 \text{ inch}) / 2.54 \text{ cm}$. $x \text{ inches} \approx 18.50$ inches. Therefore, 47 centimeters is approximately equal to 18.50 inches. It's important to note that this is an approximation because the conversion factor is itself a rounded value. For higher precision, more decimal places in the conversion factor can be utilized.

Method 2: Employing Online Converters

In today's digital age, numerous online converters readily provide instant conversions between various units. Simply searching "centimeters to inches converter" will yield a multitude of websites and applications that perform this calculation instantly. These tools are particularly useful for quick conversions and can serve as a valuable double-check for manual calculations. However, it's crucial to use reputable sources to ensure the accuracy of the results.

Method 3: Understanding the Logic Behind the Conversion

Beyond the simple formula, understanding the underlying logic of the conversion strengthens comprehension. The conversion factor 2.54 cm/inch represents the number of centimeters contained within one inch. Multiplying 47 cm by this factor essentially divides 47 cm into segments of 2.54 cm each, counting how many "inch-sized" segments are present. This conceptual understanding prevents the conversion from becoming a rote memorization exercise and promotes a deeper grasp of unit relationships.

Common Challenges and Pitfalls

A frequent mistake arises from incorrect application of the conversion factor. Reversing the ratio (using 2.54 inches/cm) leads to an incorrect result, significantly underestimating or overestimating the true value. Carefully checking the units throughout the calculation helps prevent this error. Another challenge is the interpretation of decimal places in the final answer. While highly precise calculations may yield numerous decimal places, practical applications often require rounding to a suitable degree of accuracy depending on the context (e.g., rounding to the nearest tenth of an inch for a DIY project).

Practical Applications and Examples

The conversion of centimeters to inches has countless practical applications. In tailoring, designing furniture, understanding international product specifications, or even planning home renovations, this skill is indispensable. For instance, if you purchase fabric measuring 47 cm wide, understanding its equivalent of roughly 18.5 inches allows for accurate planning in a project using imperial measurements. Similarly, knowing the dimensions of an imported item in inches allows for proper space allocation.

Summary

Converting 47 centimeters to inches involves applying the conversion factor of approximately 2.54 cm per inch. This can be done through direct calculation, utilizing online converters, or by understanding the underlying logic of the conversion. Accuracy is paramount; paying close attention to units and appropriate rounding significantly improves the reliability of the conversion. Mastering this basic conversion lays a solid foundation for tackling more complex unit conversions in various fields.

Frequently Asked Questions (FAQs)

1. Is the conversion factor 2.54 cm/inch exact? No, it's an approximation. The exact value is slightly more complex, but 2.54 is sufficiently accurate for most practical purposes. 2. Can I convert inches to centimeters using the same factor? Yes, simply rearrange the equation: $\text{cm} = \text{inches} \times 2.54$. 3. What if I need a more precise conversion? Use a more precise value for the conversion factor (e.g., 2.540005 cm/inch) and carry more significant figures throughout your calculation. 4. Are there other units of length I can convert to or from centimeters? Yes, centimeters can be converted to millimeters, meters, kilometers, feet, yards, and miles, among others. Each conversion requires a different conversion factor. 5. Why is it important to understand unit conversions? Understanding unit conversions is crucial for accurate measurements, calculations, and communication in various fields, particularly when working with international standards and specifications.

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