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Exploring the X-ray Universe Frederick D. Seward 2010-08-26 Capturing the excitement and accomplishments of X-ray astronomy, this second edition now includes a broader range of astronomical phenomena and dramatic new results from the most powerful X-ray telescopes.

Covering all areas of astronomical research, ranging from the smallest to the largest objects, from neutron stars to clusters of galaxies, this textbook is ideal for undergraduate students. Each chapter starts with the basic aspects of the topic, explores the history of discoveries, and examines in detail modern observations and their significance. This new edition has been updated with results from the most recent space-based instruments, including ROSAT, BeppoSAX, ASCA, Chandra, and XMM. New chapters cover X-ray emission processes, the interstellar medium, the Solar System, and gamma-ray bursts. The text is supported by over 300 figures, with tables listing the properties of the sources, and more specialized technical points separated in boxes.

Data Mining: Introductory And Advanced Topics Margaret H Dunham 2006-09

Medical Microbiology for Nurses Jacob Anthikad 2013-01-01 The book is strictly as per the INC syllabus and has Medical Microbiology and Parasitology in a single volume. This is perhaps the only textbook where the medical entomology has been detailed as per the requirements of the INC. The book is written in a simple language and is very student friendly. University question papers, MCQs and a glossary of terms are also included to help the students for their comprehension. The book has lots of colorful illustrations explaining the subject matter. Book jacket.

Advances in Communication and Computing Prabin Kumar Bora 2015-06-17 The present volume is a compilation of research work in computation, communication, vision sciences, device design, fabrication, upcoming materials and related process design, etc. It is derived out of selected manuscripts submitted to the 2014 National

Workshop on Advances in Communication and Computing (WACC 2014), Assam Engineering College, Guwahati, Assam, India which is emerging out to be a premier platform for discussion and dissemination of knowhow in this part of the world. The papers included in the volume are indicative of the recent thrust in computation, communications and emerging technologies. Certain recent advances in ZnO nanostructures for alternate energy generation provide emerging insights into an area that has promises for the energy sector including conservation and green technology. Similarly, scholarly contributions have focused on malware detection and related issues. Several contributions have focused on biomedical aspects including contributions related to cancer detection using active learning, application of clinical information in MECG using sample and channel convolution matrices for better diagnostic decision, etc. Some other works have focused on the DCT-domain linear regression of ECG signals, SVD Analysis on reduced 3-lead ECG data, the quantification of diagnostic information on ECG signal, a compressed sensing approach with application in MRI, learning aided image de-noising for medical applications, etc. Some works have dealt with application of audio fingerprinting for multi-lingual Indian song retrieval, semi-automatic approach to segmentation and the marking of pitch contours for prosodic analysis, semiautomatic syllable labeling for Assamese language, stressed speech recognition, handwriting recognition in Assamese script, speaker verification considering the effect of session variability and the block matching for motion estimation, etc. The primary objective of the present volume is to prepare a

document for dissemination of and discussion on emerging areas of research in computation and communication as aimed by WACC 2014. We hope that the volume will serve as a reference book for researchers in these areas.

Handbook of Pain Management Jitendra Jain 2018-01-31 This book is a practical guide to the diagnosis and management of pain. Presented in a case-based approach the text begins with an introduction to pain and its pathophysiology, the next chapter discusses assessment and diagnosis of pain. The following sections provide in depth detail on the management of different categories of pain – acute, cancer-related, and non-cancer chronic pain. The final chapter covers pain management in specific situations including dysfunction related to the gastrointestinal tract, renal, hepatic, respiratory and cardiac systems, and in pregnant and breast-feeding patients, and geriatric patients. The handbook is enhanced by clinical images and tables to assist learning. Key points Practical guide to the diagnosis and management of pain Presented in a case-based approach with clinical examples Covers acute, cancer-related and non-cancer chronic pain Includes clinical images and tables *#MakeoverMonday* Andy Kriebel 2018-10-02 Explore different perspectives and approaches to create more effective visualizations #MakeoverMonday offers inspiration and a giant dose of perspective for those who communicate data. Originally a small project in the data visualization community, #MakeoverMonday features a weekly chart or graph and a dataset that community members reimagine in order to make it more effective. The results have been astounding; hundreds of people have contributed thousands of makeovers, perfectly illustrating the highly variable

nature of data visualization. Different takes on the same data showed a wide variation of theme, focus, content, and design, with side-by-side comparisons throwing more- and less-effective techniques into sharp relief. This book is an extension of that project, featuring a variety of makeovers that showcase various approaches to data communication and a focus on the analytical, design and storytelling skills that have been developed through #MakeoverMonday. Paging through the makeovers ignites immediate inspiration for your own work, provides insight into different perspectives, and highlights the techniques that truly make an impact. Explore the many approaches to visual data communication Think beyond the data and consider audience, stakeholders, and message Design your graphs to be intuitive and more communicative Assess the impact of layout, color, font, chart type, and other design choices Creating visual representation of complex datasets is tricky. There's the mandate to include all relevant data in a clean, readable format that best illustrates what the data is saying—but there is also the designer's impetus to showcase a command of the complexity and create multidimensional visualizations that "look cool." #MakeoverMonday shows you the many ways to walk the line between simple reporting and design artistry to create exactly the visualization the situation requires.

An Integrated Course In Electrical Engineering (3rd Edition) J.B. Gupta 2009

Thacker's Indian Directory ... 1922

Elementary JavaScript - Programming for Elementary and Middle School Kids Siddharth Dalal 2019-08-31 Elementary JavaScript – Programming for Elementary

and Middle School Kids is designed to introduce anyone 10 years and up to programming. Follow along as you learn the basic concepts of programming while building parts of a game. By the end of this book, you will have learned the basics of programming and built a Pokémon card game at the same time. This book is based on Sidd's experience teaching his son programming and he thinks anyone can enjoy the unlimited possibilities from knowing how to code. Code opens the doors to all kinds of fun projects. Imagine being able to make the games you play! This book will teach you how to think in code, write code that is easy to understand, work with friends on code projects and also what to do once your project is complete. You will be introduced to the latest additions to the JavaScript language that make programming simpler, more efficient and less complicated.

Proceedings of International Conference on Intelligent Manufacturing and Automation Hari Vasudevan 2020-06-30 This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-

machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

Proceedings of International Conference on Wireless Communication Hari Vasudevan 2019-11-16 The book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM), which is organized by D. J. Sanghvi College of Engineering's Department of Electronics and Telecommunication Engineering. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas – networking, antenna designs and embedded systems applicable to communication – it is a valuable resource for postgraduate and doctoral students.

The Code of Hammurabi Hammurabi 2016-10-08 The Code of Hammurabi (Codex Hammurabi) is a well-preserved ancient law code, created ca. 1790 BC (middle chronology) in ancient Babylon. It was enacted by the sixth Babylonian king, Hammurabi. One nearly complete example of the Code survives today, inscribed on a seven foot, four inch tall basalt stele in the Akkadian language in the cuneiform script. One of the first written codes of law in recorded history. These laws were written on a stone tablet standing over eight feet

tall (2.4 meters) that was found in 1901.
The Impossible Indian Faisal Devji
2012-09-28 This is a rare view of Gandhi as
a hard-hitting political thinker willing to
countenance the greatest violence in
pursuit of a global vision that went beyond
a nationalist agenda. Guided by his idea of
ethical duty as the source of the self's
sovereignty, he understood how life's
quotidian reality could be revolutionized to
extraordinary effect.
Color Atlas of Clinical Dermatology Atif
Hasnain Kazmi 2015-06-05
**Wylie Churchill-Davidson's A Practice
of Anesthesia** Thomas Healy 2003-10-31
The new edition of this popular text has
been extensively revised and updated
throughout. It will continue to provide the
trainee or practising anesthetist with all the
information, both background and practical,
that will be needed in the busy clinical
setting or during revision for qualifying
examinations.Major changes for the new
edition include
Handbook of Cloud Computing Borko Furht
2010-09-11 Cloud computing has become a
significant technology trend. Experts
believe cloud computing is currently
reshaping information technology and the
IT marketplace. The advantages of using
cloud computing include cost savings,
speed to market, access to greater
computing resources, high availability, and
scalability. Handbook of Cloud Computing
includes contributions from world experts
in the field of cloud computing from
academia, research laboratories and private
industry. This book presents the systems,
tools, and services of the leading providers
of cloud computing; including Google,
Yahoo, Amazon, IBM, and Microsoft. The
basic concepts of cloud computing and
cloud computing applications are also
introduced. Current and future

technologies applied in cloud computing are also discussed. Case studies, examples, and exercises are provided throughout. Handbook of Cloud Computing is intended for advanced-level students and researchers in computer science and electrical engineering as a reference book. This handbook is also beneficial to computer and system infrastructure designers, developers, business managers, entrepreneurs and investors within the cloud computing related industry.

Python Hacks Subrat Gupta 2020-06-05 Python is a superb language, easy to learn and start with. It could help achieve versatile tasks and hence its good to know about it inside out. If you are already a beginner and looking forward to dive it in a bit more, this book is for you! This book will let you know some cool uncommon tricks you could use in Python . It also gives information of some useful modules that could make the task of implementing some complex tasks in easy manner. To have an abstract knowledge about Python's standard libraries/modules is good. This will help to choose the perfect modules to solve problems and tasks in future.

Basic Ophthalmology Renu Jogi 2016-10-17 Fully revised, new edition presenting students with latest information in field of ophthalmology. Covers all sections of the eye and associated disorders and diseases. Previous edition published in 2008.

Blended Learning in Practice Amanda G. Madden 2019-04-09 A guide to both theory and practice of blended learning offering rigorous research, case studies, and methods for the assessment of educational effectiveness. Blended learning combines traditional in-person learning with technology-enabled education. Its pedagogical aim is to merge the scale,

asynchrony, and flexibility of online learning with the benefits of the traditional classroom—content-rich instruction and the development of learning relationships. This book offers a guide to both theory and practice of blended learning, offering rigorous research, case studies, and methods for the assessment of educational effectiveness. The contributors to this volume adopt a range of approaches to blended learning and different models of implementation and offer guidelines for both researchers and instructors, considering such issues as research design and data collection. In these courses, instructors addressed problems they had noted in traditional classrooms, attempting to enhance student engagement, include more active learning strategies, approximate real-world problem solving, and reach non-majors. The volume offers a cross-section of approaches from one institution, Georgia Tech, to provide both depth and breadth. It examines the methodologies of implementation in a variety of courses, ranging from a first-year composition class that incorporated the video game Assassin's Creed II to a research methods class for psychology and computer science students. Blended Learning will be an essential resource for educators, researchers, administrators, and policy makers. Contributors Joe Bankoff, Paula Braun, Mark Braunstein, Marion L. Brittain, Timothy G. Buchman, Rebecca E. Burnett, Aldo A. Ferri, Bonnie Ferri, Andy Frazee, Mohammed M. Ghassemi, Ashok K. Goel, Alyson B. Goodman, Joyelle Harris, Cheryl Hiddleson, David Joyner, Robert S. Kadel, Kenneth J. Knoespel, Joe Le Doux, Amanda G. Madden, Lauren Margulieux, Olga Menagarishvili, Shamim Nemati, Vjollca Sadiraj, Donald Webster Proceedings of International Conference on

Intelligent Manufacturing and Automation Hari Vasudevan 2018-11-04 This book presents the outcomes of the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018) organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering, Mumbai, and the Indian Society of Manufacturing Engineers. It includes original research and the latest advances in the field, focusing on automation, mechatronics and robotics; CAD/CAM/CAE/CIM/FMS in manufacturing; product design and development; DFM/DFA/FMEA; MEMS and Nanotechnology; rapid prototyping; computational techniques; industrial engineering; manufacturing process management; modelling and optimization techniques; CRM, MRP and ERP; green, lean, agile and sustainable manufacturing; logistics and supply chain management; quality assurance and environment protection; advanced material processing and characterization; and composite and smart materials.

INDIA'S NEW CAPITALISTS Harish Damodaran 2018-11-25 It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular 'Bania' communities. However, the past four or so decades have seen a widening of the social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book – acclaimed for being the first social history to document and understand India's new entrepreneurial groups – Harish

Damodaran looks to answer who the new 'wealth creators' are, as he traces the transitional entry of India's middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, India's New Capitalists is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

ICCCE 2019 Amit Kumar 2019-08-02 This book is a collection research papers and articles from the 2nd International Conference on Communications and Cyber-Physical Engineering (ICCCE – 2019), held in Pune, India in Feb 2019. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image- and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry.

Cloud Computing Technologies for Smart Agriculture and Healthcare Urmila Shrawankar 2021-12-29 The Cloud is an advanced and fast-growing technology in the current era. The computing paradigm has changed drastically. It provided a new insight into the computing world with new characteristics including on-demand, virtualization, scalability and many more. Utility computing, virtualization and service-oriented architecture (SoA) are the key characteristics of Cloud computing. The Cloud provides distinct IT services over the web on a pay-as-you-go and on-demand basis. Cloud Computing Technologies for Smart Agriculture and Healthcare covers Cloud management and its framework. It also focuses how the Cloud computing framework can be integrated with applications based on agriculture and

healthcare. Features: Contains a systematic overview of the state-of-the-art, basic theories, challenges, implementation, and case studies on Cloud technology Discusses of recent research results and future advancement in virtualization technology Focuses on core theories, architectures, and technologies necessary to develop and understand the computing models and its applications Includes a wide range of examples that uses Cloud technology for increasing farm profitability and sustainable production Presents the farming industry with Cloud technology that allows it toaggregate, analyze, and share data across farms and the world Includes Cloud-based electronic health records with privacy and security features Offers suitable IT solutions to the global issues in the domain of agriculture and health care for society This reference book is aimed at undergraduate and post-graduate programs. It will also help research scholars in their research work. This book also benefits like scientists, business innovators, entrepreneurs, professionals, and practitioners.

Euro-Par 2007 Workshops: Parallel Processing Luc Bougé 2008-03-08 Parallelanddistributedprocessing,althoughwithinthefocusofcomputerscience researchforalongtime,isgainingmoreandmoreimportanceinawidespectrum of applications. These proceedings aim to demonstrate the use of parallel and distributed processing concepts in di?erent application ?elds, and attempt to spark interest in novel research directions to advance the embracing model of high-performance computing research in general. The objective of these workshops is to speci?cally address researchers c- ing from university, industry and governmental research organizations and application-

oriented companies, in order to close the gap between purely s- enti?c research and the applicability of the research ideas to real-life problems. Euro-Par is an annual series of international conferences dedicated to the promotionandadvancementofallaspectsofparallelanddistributedcomputing. The 2007 event was the 13th issue of the conference. Euro-Par has for a long time been eager to attract colocated events sharing the same goal of promoting the development of parallel and distributed computing, both as an industrial technique and an academic discipline, extending the frontier of both the state of the art and the state of the practice. Since 2006, Euro-Par o?ers researchersthe chance to colocate advanced technical workshops back-to-back with the main conference. This is for a mutual bene?t: the workshops can take advantage of all technical and social facilities which are set up for the conference, so that the organizational tasks are kept to a minimal level; the conference can rely on workshopstoexperimentwithspeci?careasofresearchwhicharenotyetmature enough, or too speci?c, to lead to an o?cial, full-?edged topic at the conference.

Advanced Computing Technologies and Applications Hari Vasudevan 2020-05-06 This book features selected papers presented at the 2nd International Conference on Advanced Computing Technologies and Applications, held at SVKM's Dwarkadas J. Sanghvi College of Engineering, Mumbai, India, from 28 to 29 February 2020. Covering recent advances in next-generation computing, the book focuses on recent developments in intelligent computing, such as linguistic computing, statistical computing, data computing and ambient applications.

Anesthesiology Fun-Sun F. Yao 1993 This revised, updated, and expanded text (2nd ed., 1988), which reflects the clinical experience of the department of anesthesiology at The New York Hospital-Cornell Medical Center, presents a group of important clinical entities covering the most critical anesthetic problems. It is intended to provide residents and practicing anesthesiologists with logical and scientific fundamentals for individualized patient management. The present edition adds 12 new chapters. Annotation copyright by Book News, Inc., Portland, OR

Proceedings of International Conference on Wireless Communication Hari Vasudevan 2018-04-21 The volume comprises best selected papers presented at International Conference on Wireless Communication (ICWiCOM) which is organized by Department of Electronics and Telecommunication Engineering of D J Sanghvi College of Engineering. The volume focusses on narrowed topics of wireless communication like signal and image processing applicable to wireless domain, networking, microwave and antenna designs, tele-medicine systems, etc. The papers are divided into three main domains like, networking, antenna designs and embedded systems applicable to the communication domain. The content will be helpful for Post-Graduate and Doctoral students in their research.
INSTANT NOTES FOR BIOPROCESS TECHNOLOGY Dr. L. KRISHNASAMY 2022-03-03 Bioprocess Technology combines concepts and ideas from biology, engineering, materials science, and clinical processes. The industrial use of biological processes utilising living cells or their components to achieve desired substrate transformations is known as bioprocess

technology. Bioprocesses provide several benefits over standard chemical processes, including the need for moderate reaction conditions, increased specificity and efficiency, and the production of renewable by-products (biomass). Bioprocesses' potential has been broadened and extended thanks to the introduction of recombinant DNA technology. Bioprocesses are now widely employed in a variety of commercial biotechnology disciplines, including the synthesis of enzymes (used in food processing and waste management, for example) and antibiotics. Bioprocesses may find applications in other sectors where chemical processes are now applied as methodologies and equipment improve. Many of biotechnology's potential applications are created through laboratory processes that yield very modest quantities of valuable chemicals. As bioprocess technology advances, particularly

separation and purification techniques, commercial firms will be able to produce these substances in large quantities at a low cost, allowing them to be used in medicalresearch, food processing, agriculture, pharmaceutical development, waste management, and a variety of other fields of science and industry.

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Vinit Kumar Gunjan 2020-10-17 This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29–30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-

disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.
Novel Algorithms and Techniques in Telecommunications and Networking Tarek Sobh 2010-01-30 Novel Algorithms and Techniques in Telecommunications and Networking includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. Novel Algorithms and Techniques in Telecommunications and Networking

includes selected papers form the conference proceedings of the International Conference on Telecommunications and Networking (TeNe 08) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).
From Active Data Management to Event-Based Systems and More Kai Sachs 2010-11-18 Data management has evolved over the years from being strictly associated with database systems, through active databases, to become a topic that has grown beyond the scope of a single field encompassing a large range of subjects, such as distributed systems, event-driven systems, and peer-to-peer and streaming systems. The present collection of works, which sheds light on various facets of data management, is dedicated to Prof. Alejandro Buchmann on the occasion of his 60th birthday. His scientific path looks back

on more than thirty years of successful academic life and high-impact research. With this book we celebrate Prof. Buchmann's vision and achievements.

Proceedings of International Conference on Wireless Communication Hari Vasudevan 2022-01-16 This book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM 2021), which is organized by the Department of Electronics and Telecommunication Engineering, D. J. Sanghvi College of Engineering, Mumbai, India, during October 8–9, 2021. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas – Antenna Design, Networking & Signal Processing, Embedded Systems and Internet of Things (IoT) – it is a valuable resource for postgraduate and doctoral students.

Distributed Systems Maarten van Steen 2017-02 For this third edition of - Distributed Systems, - the material has been thoroughly revised and extended, integrating principles and paradigms into nine chapters: 1. Introduction 2. Architectures 3. Processes 4. Communication 5. Naming 6. Coordination 7. Replication 8. Fault tolerance 9. Security A separation has been made between basic material and more specific subjects. The latter have been organized into boxed sections, which may be skipped on first reading. To assist in understanding the more algorithmic parts, example programs in Python have been included. The examples in the book leave out many details for readability, but the complete code is available through the book's Website, hosted at www.distributed-systems.net. A

personalized digital copy of the book is available for free, as well as a printed version through Amazon.com.

Evolutionary Genomics Maria Anisimova 2012

Textbook of Pediatric Dermatology Arun C Inamadar 2014-02-28 Fully revised second edition bringing trainees and clinicians up to date with latest advances in paediatric dermatology. Previous edition published in 2009.

2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA) IEEE Staff 2020-04-03 The aim is to bring together academia and industry to foster research in relevant themes and provide a platform for future collaborations The conference will include keynote speeches, invited talks, technical sessions It will include the major tracks as Communication & Networking ,Signal Processing , Software and Process Engineering and Applied Computing & IT Original research papers on the tracks related to conference theme are solicited

Advances in Computing, Communication and Control Srija Unnikrishnan 2011-01-14 This book constitutes the refereed proceedings of the International Conference on Advances in Computing Communications and Control, ICAC3 2011, held in Mumbai, India, in January 2011. The 84 revised full papers presented were carefully reviewed and selected from 309 submissions. The papers address issues such as AI, artificial neural networks, computer graphics, data warehousing and mining, distributed computing, geo information and statistical computing, learning algorithms, system security, virtual reality, cloud computing, service oriented architecture, semantic web, coding techniques, modeling and simulation of communication systems, network

architecture, network protocols, optical fiber/microwave communication, satellite communication, speech/image processing, wired and wireless communication, cooperative control, and nonlinear control, process control and instrumentation, industrial automation, controls in aerospace, robotics, and power systems.

Essentials of Ophthalmology Samar K Basak 2015-01-20

Basics of R/C Model Aircraft Design Andy Lennon 1996 A comprehensive guide to designing radio control model airplanes. Andy Lennon presents a thorough and comprehensive introduction to the intriguing world of model aerodynamics. Whatever your modeling background, this book will be a valuable reference source in your R/C library and will never be outdated. Fully illustrated.

Science With The Cherenkov Telescope Array The Cta Consortium 2018-12-31 This book summarizes the science to be carried out by the upcoming Cherenkov Telescope Array, a major ground-based gamma-ray observatory that will be constructed over the next six to eight years. The major scientific themes, as well as core program of key science projects, have been developed by the CTA Consortium, a collaboration of scientists from many institutions worldwide.CTA will be the major facility in high-energy and very high-energy photon astronomy over the next decade and beyond. CTA will have capabilities well beyond past and present observatories. Thus, CTA's science program is expected to be rich and broad and will complement other major multiwavelength and multimessenger facilities. This book is intended to be the primary resource for the science case for CTA and it thus will be of great interest to the broader physics and astronomy communities. The electronic

version (e-book) is available in open access.