

MONTHLY NEWSLETTER OF CENTRAL LIBRARY

BIBLIOPHILE



HIGHLIGHTS

- New books added to the library collection
- Events organized by the library
- Books published by TIET faculty

WELCOME AND
GREETINGS FOR THE YEAR
2025



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

About Bibliophile

**NAVA NALANDA CENTRAL LIBRARY WISHES
ALL ITS READER A VERY
HAPPY NEW YEAR 2025**

Welcome to the "Bibliophile – a Monthly Newsletter of Nava Nalanda Central Library". The Bibliophile is a gateway to library resources, services, and activities. It brings information about the newest literary & technical gems added to our library. Each month, we proudly unveil a curated selection of new books spanning various genres, from contemporary fiction and historical novels to non-fiction and technical readings, key highlights of research output, and many more. Whether you're a passionate reader or a casual explorer, this bulletin highlights our collection's latest and greatest additions, ensuring you never miss out on a must-read.

We are happy to unveil Volume Two Number One for January 2025. The highlight of this bulletin is twenty newly added books to our collection. The books are carefully curated to keep up with the latest developments in the fields.

Enjoy the latest issue of the Bibliophile, and if you have any feedback or suggestions and want to contribute to the next issue, do let us know at the email librarian@thapar.edu.

Thank you.

Editor, Bibliophile
Nava Nalanda Central Library, TIET





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 - **Zotero Reference Management Training**
 - **Author Workshop on “Scientific Writing and Publishing”**



AGE OF AI: AND OUR HUMAN FUTURE

The Age of A.I.

And Our Human Future

Henry A.
Kissinger

x

Eric
Schmidt

x

Daniel
Huttenlocher

Henry Kissinger

Publisher: John Murray Press

ISBN: 9781529375992

Year : 2021

About the Book

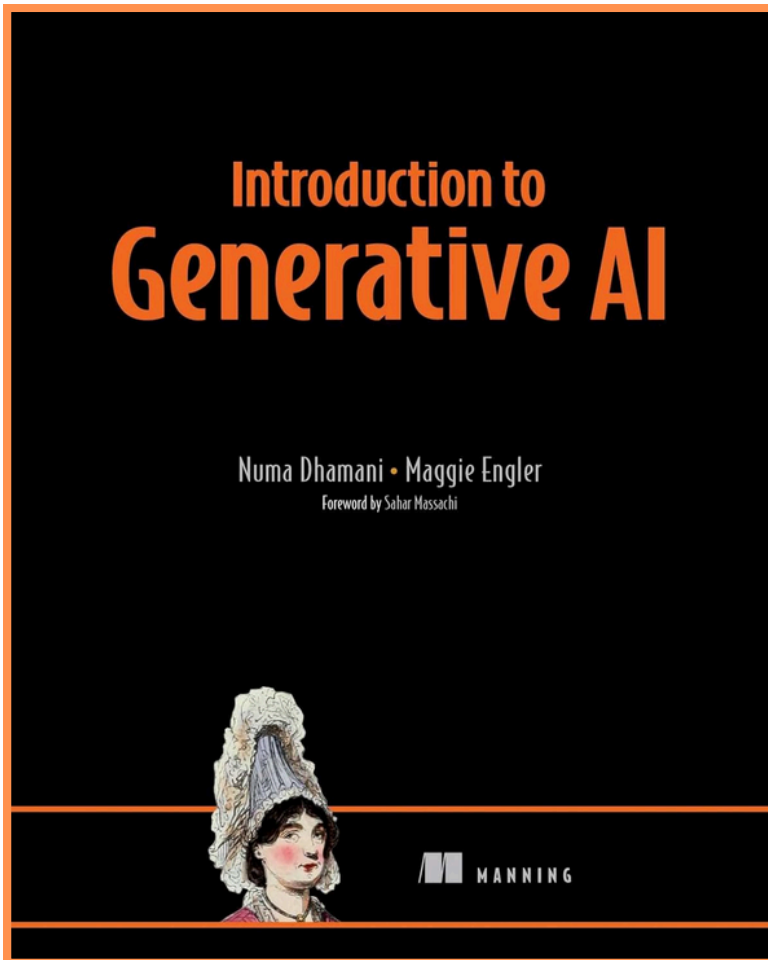
*In **The Age of AI**, three leading thinkers have come together to consider how AI will change our relationships with knowledge, politics, and the societies in which we live. Three deep thinkers explore what this means for our present and our future, tackling the questions that will affect us all:-*

- *What will it mean to be human?*
- *What are the key frontier risks?*
- *What AI ethics are we going to need?*
- *How is AI impacting politics, defence, medicine and education?*

Read in the Library



INTRODUCTION TO GENERATIVE AI



Numa Dhamani

Publisher: Manning
Publications

ISBN: 9781633437197

Year : 2024

About the Book

This book introduces the world-transforming technology and the strategies you need to use generative AI safely and effectively. Introduction to Generative AI guides you from that first eye-opening interaction to how these powerful tools can transform your personal and professional life.

You'll learn:-

- How large language models (LLMs) work
- How to integrate generative AI into your personal and professional workflows
- Balancing innovation and responsibility
- The social, legal, and policy landscape around generative AI
- Societal impacts of generative AI
- Where AI is going

Read in the Library



GENERATIVE AI



Harvard Business Review

Publisher: Harvard Business Review

ISBN: 9781647826390

Year : 2024

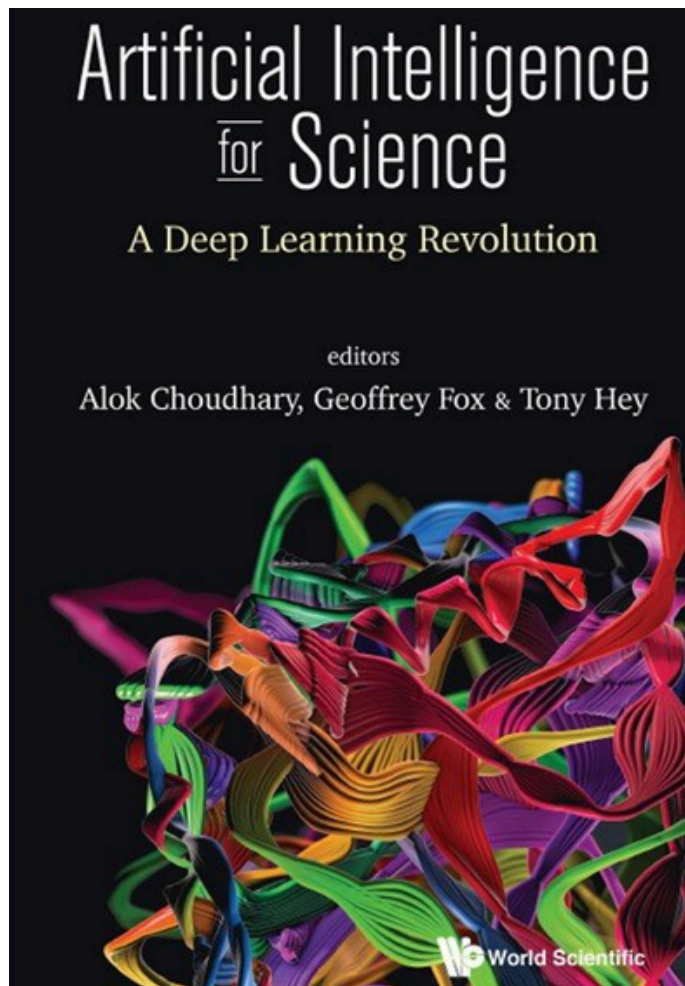
About the Book

Generative AI: The Insights You Need from Harvard Business Review will help you understand the potential of these new technologies, pick the right Gen AI projects, and reinvent your business for the new age of AI. This book serves as a guide to prepare for interviews, exams, and campus work. In short, this book provides solutions to various complex data structures and algorithmic problems.

Read in the Library



ARTIFICIAL INTELLIGENCE FOR SCIENCE



Alok Choudhary

Publisher: World Scientific

ISBN: 9789811265662

Year : 2023

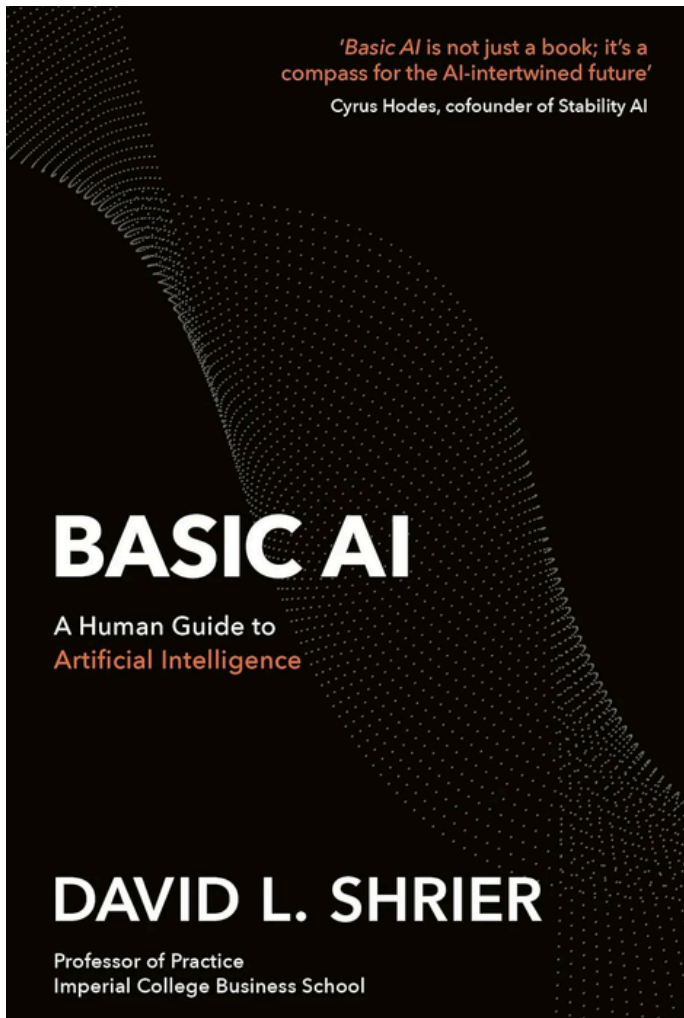
About the Book

This unique collection introduces AI, Machine Learning (ML), and deep neural network technologies leading to scientific discovery from the datasets generated both by supercomputer simulation and by modern experimental facilities. Huge quantities of experimental data come from many sources — telescopes, satellites, gene sequencers, accelerators, and electron microscopes. The timely handbook benefits professionals, researchers, academics, and students in all fields of science and engineering as well as AI, ML, and neural networks. Further, the vision evident in this book inspires all those who influence or are influenced by scientific progress.

Read in the Library



BASIC AI: A HUMAN GUIDE TO ARTIFICIAL INTELLIGENCE



David L. Shrier

Publisher: Robinson

ISBN: 9781472148759

Year : 2024

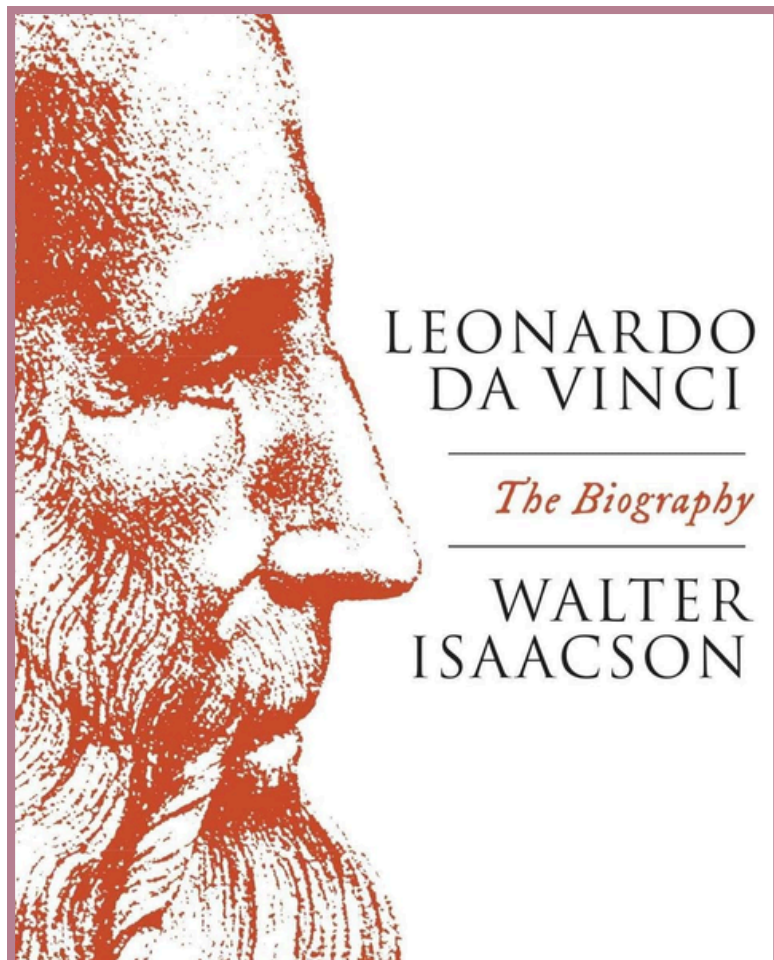
About the Book

In **Basic AI**, leading futurist **David L. Shrier** delves deep into the rapidly advancing world of artificial intelligence, delivering fascinating insights and exploring the impact this powerful technology will have on our lives and world. Artificial intelligence is driving workforce disruption on a scale not seen since the Industrial Revolution. In schools and universities, AI technology has forced a re-evaluation of the way students are taught and assessed. **Basic AI** provides a rare window into a frontier area of computer science that will change everything about how you live and work. Read this book and better understand how to succeed in the AI-enabled future.

Read in the Library



LEONARDO DA VINCI: THE BIOGRAPHY



Walter Isaacson

Publisher: Simon & Schuster

ISBN: 9781471166785

Year : 2017

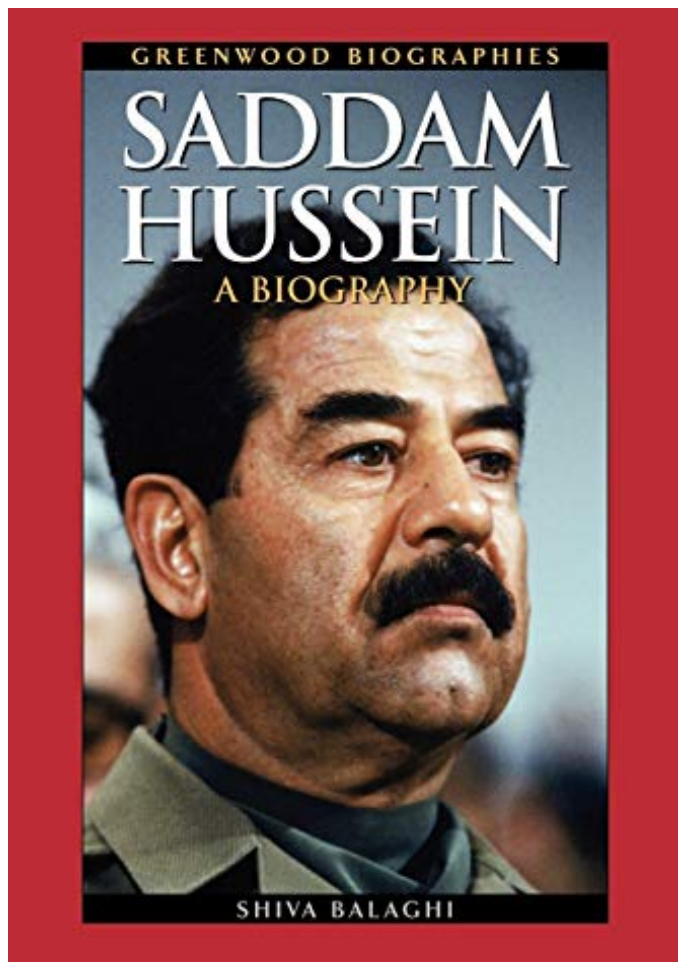
About the Book

Based on thousands of pages from **Leonardo da Vinci's** astonishing notebooks and new discoveries about his life and work, Walter Isaacson weaves a narrative that connects his art to his science. He shows how Leonardo's genius was based on skills we can improve in ourselves, such as passionate curiosity, careful observation, and an imagination so playful that it flirted with fantasy.

Read in the Library



SADDAM HUSSEIN: A BIOGRAPHY



Shiva alaghi

Publisher: Greenwood Press

ISBN: 9780313361883

Year : 2006

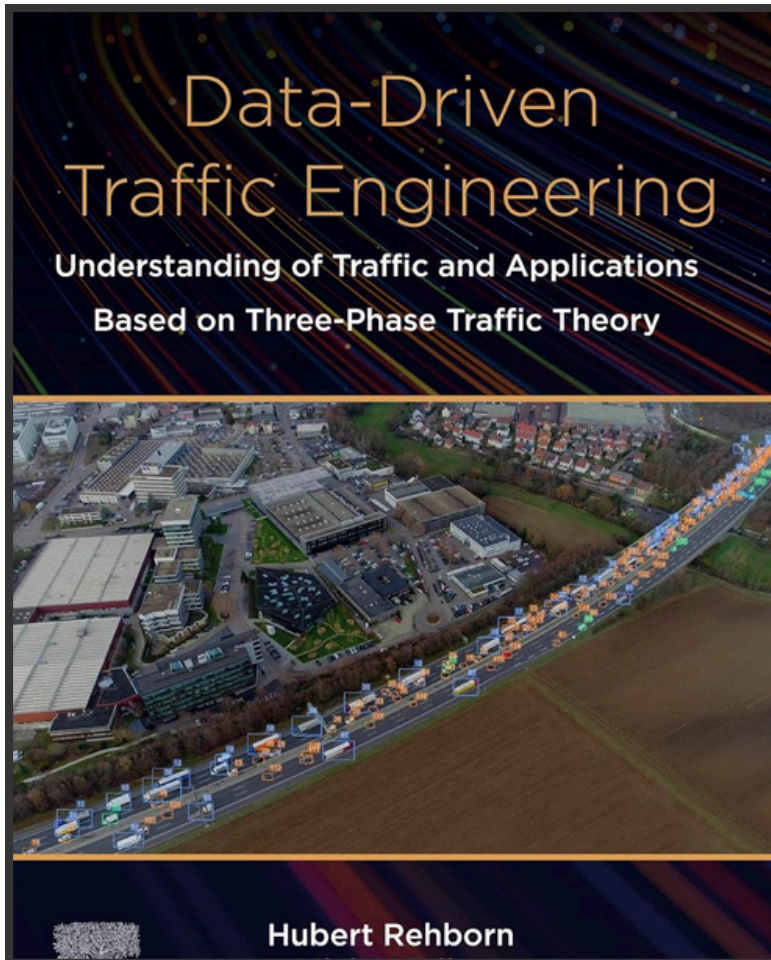
Read in the Library



About the Book

This biography details Saddam's difficult childhood in Tikrit and his politically influential teenage years in Baghdad with his uncle. His involvement with the Iraqi Ba'ath Party led to his participation in an assassination attempt on then Prime Minister Qassem. In his early political life, Saddam retained the lessons of village life learned in his difficult Tikrit childhood, but they would become enmeshed with his discovery of Ba'athism and pan-Arabism. Once he became President of Iraq, Saddam often ruled with force and a carefully cultivated image throughout the use of visual imagery and books.

DATA-DRIVEN TRAFFIC ENGINEERING



Hubert ehborn

Publisher: Elsevier

ISBN: 9780128191385

Year : 2021

About the Book

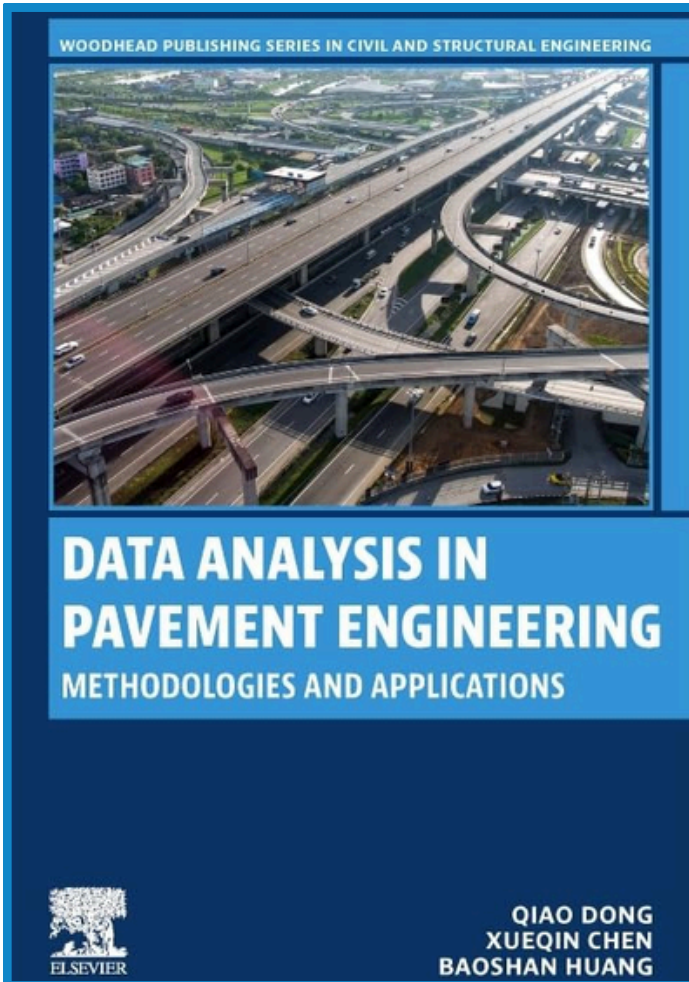
The book uses real-world, empirically-derived data from a large fleet of connected vehicles, local observations and aerial observation to shed light on key traffic phenomena. Readers will learn how to develop an understanding of the empirical features of vehicular traffic networks and how to consider these features in emerging, intelligent transport systems. Topics cover congestion patterns, fuel consumption, the influence of weather, and much more.-

- Offers a critical scientific understanding of the underlying concerns of traffic control in automated driving and intelligent transport systems

Read in the Library



DATA ANALYSIS IN PAVEMENT ENGINEERING



Qiao Dong

Publisher: Woodhead Publishing

ISBN: 9780443159282

Year : 2024

Read in the Library



About the Book

Data Analysis in Pavement Engineering: Methodologies and Applications introduces the theories and methods as well as definitions, principles, and algorithms of data analysis applied in pavement and transportation infrastructure analysis, tests, maintenance, and operation. This book provides case studies that demonstrate how these methods can be applied to solve problems in pavement engineering. Through these real-life examples, readers can gain a better understanding of how to utilize these data analysis techniques effectively. This book serves as a reference for engineers or a textbook for graduate and students in disciplines related to transportation infrastructure.

PROCESS AND HYDRAULIC DESIGN

Rajsons Publications Pvt. Ltd.

PROCESS AND HYDRAULIC DESIGN OF WASTEWATER TREATMENT PLANTS

Dr S N TIRTHAKAR



STANDARD BOOK HOUSE (SINCE 1960)

S.N. Tirthakar

Publisher: Standard Book House

ISBN: 9789391651008

Year : 2022

Read in the Library



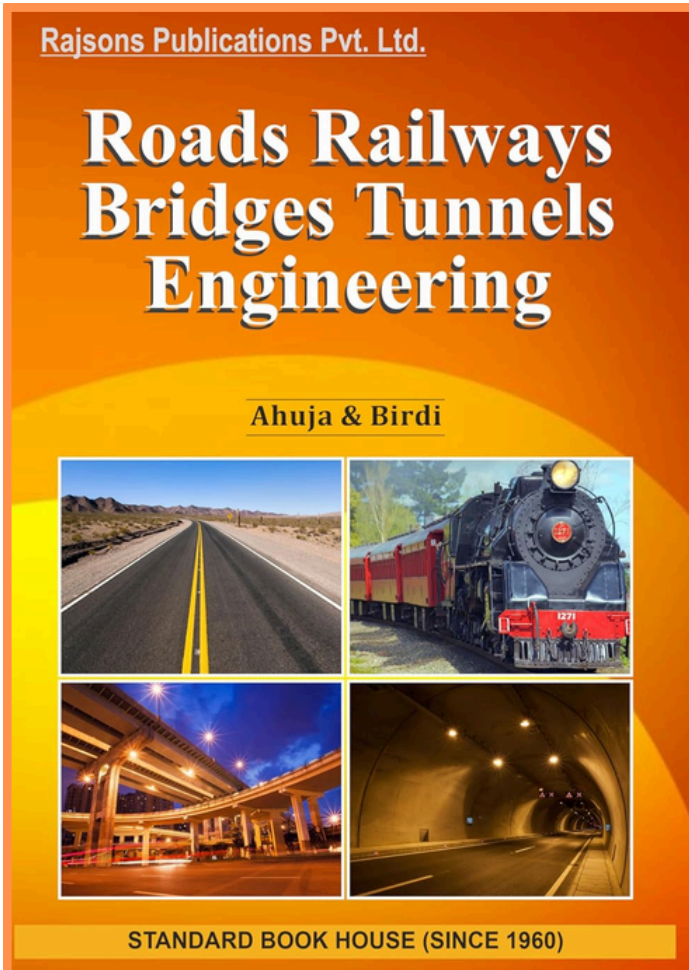
About the Book

This book is intended for undergraduate (B.E/B. Tech) students of civil engineering and post graduate (M.E/M.Tech) students of environmental science and engineering, and beginners in design of wastewater treatment plants. Also, it will be useful to the established designers of wastewater treatment plants, decision makers of municipal corporations, field executives and pollution control board authorities.

Book features:-

- Provides enough subject theory and design of wastewater treatment plants in detail.
- Process design of Sequencing Batch Reactor (SBR) process.

ROADS, RAILWAYS BRIDGES AND TUNNELS ENGINEERING



T. D. Ahuja

Publisher: Standard Book House

ISBN: 9788189401337

Year : 2022

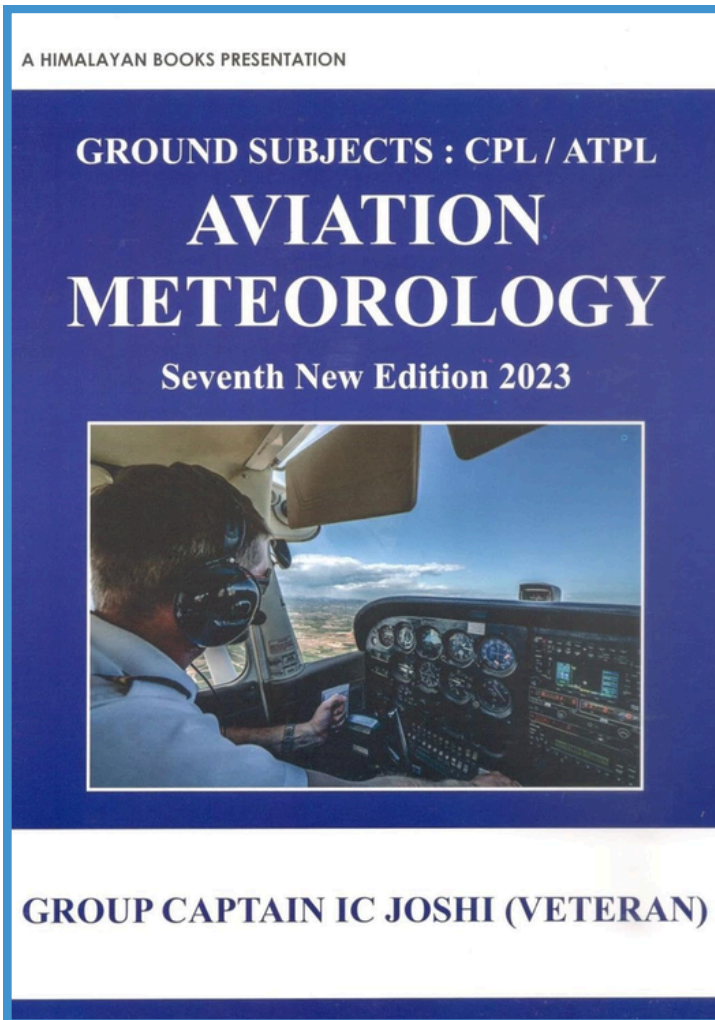
About the Book

Roads, Railways Bridges Tunnels Engineering, authored by Ahuja and Birdi, is a comprehensive book for students of Technology and Engineering. It is essential for those who want to understand the engineering behind building roads, railways, bridges and tunnels. The Present work on Roads, Railways, Bridges and Tunnels Engineering is mainly intended for final year students of Civil Engineering. This book has been thoroughly revised and enlarged. Some New Chapter have been added to bring the subject matter up-to-date.

Read in the Library



AVIATION METEOROLOGY: GROUND SUBJECTS CPL / ATPL



I.C. Joshi

Publisher: Himalayan Books

ISBN: 9788170020998

Year : 2023

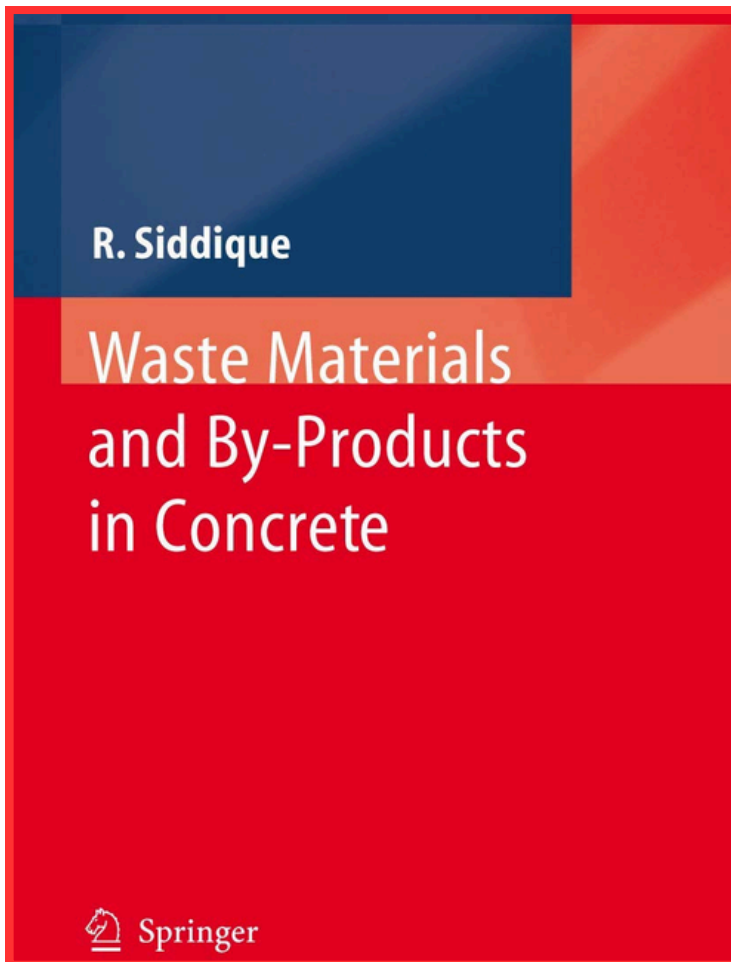
Read in the Library



About the Book

The Purpose of this book **Aviation Meteorology** is to assist students preparing for the JAR ATPL and CPL Aircraft examination. The Books are written to be used throughout training or as a pre examination revision tool. Provides detailed explanations of how questions should be addressed and why a specific option is correct and the others incorrect.

WASTE MATERIALS AND BY-PRODUCTS IN CONCRETE



Rafat Siddique

Publisher: Springer Verlag

ISBN: 9783540742937

Year : 2008

Read in the Library



About the Book

Non-hazardous waste materials and by-products which are mostly landfilled, can be used in making concrete and similar construction materials. This book gives an summary of this usage: one chapter is devoted to each material, comprising an introduction, chemical and physical properties, usage potential, and the impact of the material on the various properties of concrete.

The waste materials and by-products covered in the book are; granulated blast furnace slag, metakaolin, waste and recycled plastics, waste glass, coal fly ash, rice husk ash, municipal solid waste ash, wood ash, volcanic ash, cement kiln dust and foundry sand.

GEOTECHNICAL MODELLING



David Muir Wood

Publisher: Spon Press

ISBN: 9780419237303

Year : 2004

About the Book

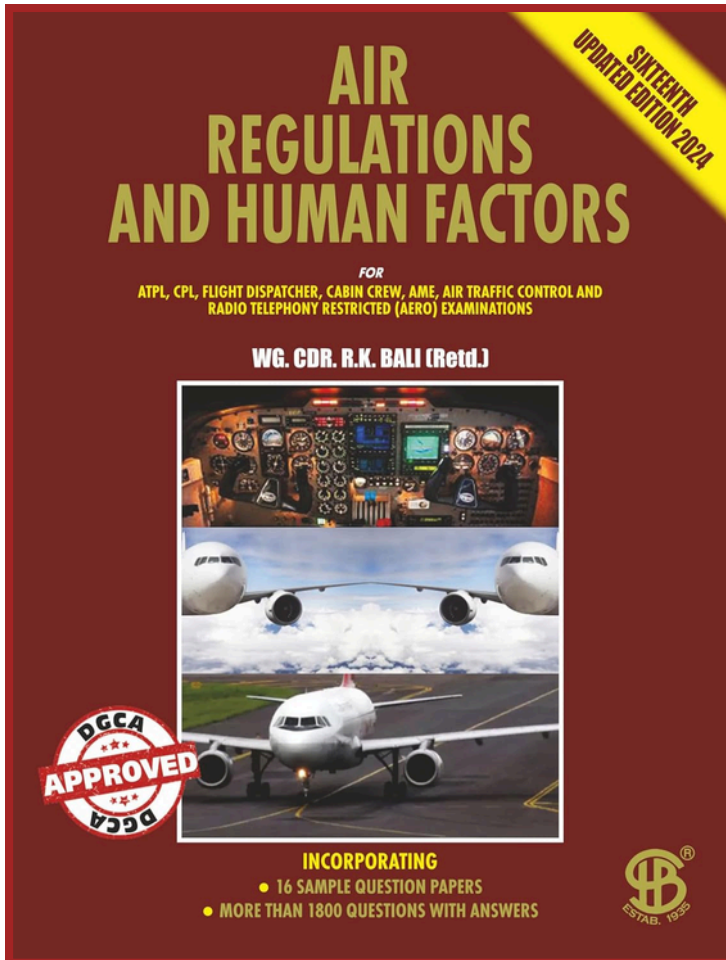
Modelling forms an implicit part of all engineering design but many engineers engage in modelling without consciously considering the nature, validity and consequences of the supporting assumptions.

Derived from courses given to postgraduate and final year undergraduate MEng. students, this book presents some of the models that form a part of the typical undergraduate geotechnical curriculum and describes some of the aspects of soil behaviour which contribute to the challenge of geotechnical modelling.

Read in the Library



AIR REGULATIONS AND HUMAN FACTORS



R. K. Bali

Publisher: Sterling Book House

ISBN: 9788194417156

Year : 2024

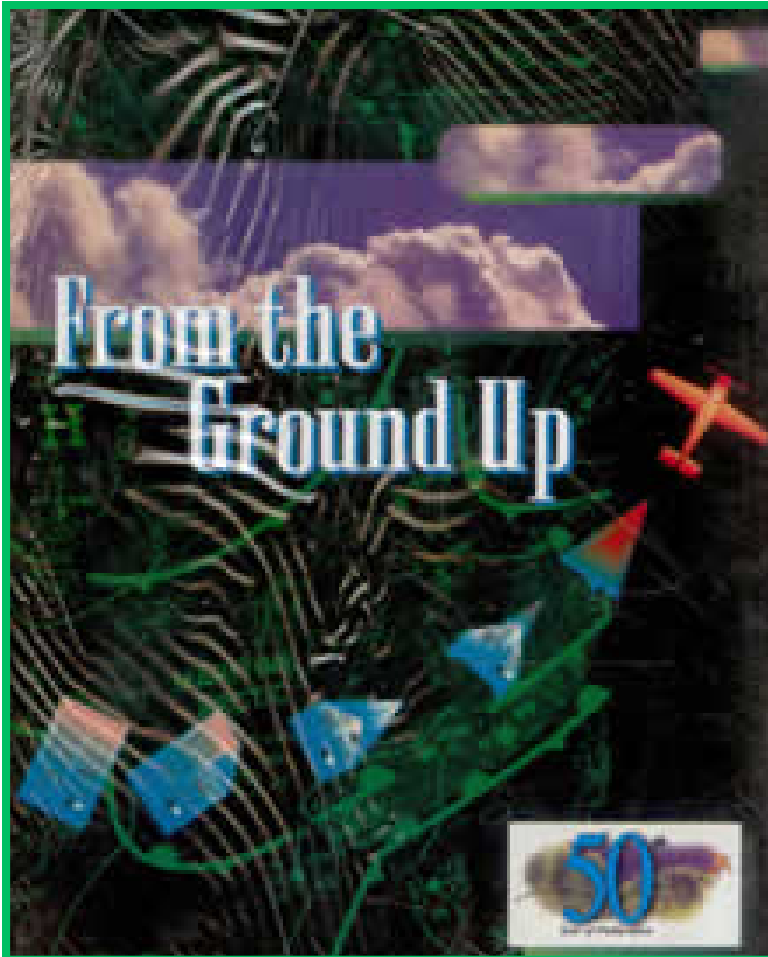
Read in the Library



About the Book

Air Regulations and Human Factors, is a comprehensive guide designed for aviation professionals, students, and enthusiasts. This edition provides the latest insights into the regulatory framework governing aviation operations, along with detailed discussions on human factors that impact safety and efficiency in the industry. It covers essential topics such as air traffic control, flight crew responsibilities, and the psychological and physiological aspects affecting aviation personnel. The book is an invaluable resource for understanding the critical intersection of regulations and human performance in aviation.

FROM THE GROUND UP WITH WORKBOOK



Himalayan Books

Publisher: Himalayan Book

ISBN: 9788110048426

Year : 2002

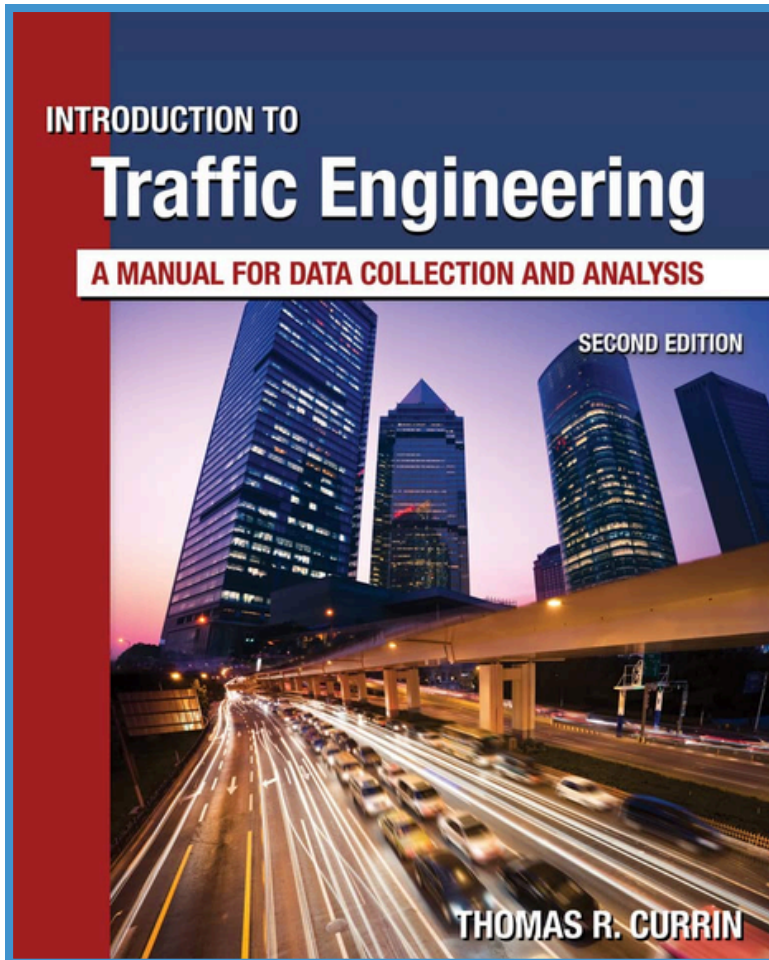
About the Book

From The Ground Up With Workbook is an instructional guide designed to provide comprehensive learning for students and enthusiasts in the field of aviation. The book covers fundamental concepts of flight, aircraft operation, and aerodynamics, paired with practical exercises and workbook activities. It aims to build a solid foundation of knowledge for aspiring pilots and aviation professionals, ensuring a thorough understanding of both theoretical and practical aspects of aviation. An extensive glossary and index help pilots keep current with changing technology and regulations affecting the aviation industry.

Read in the Library



INTRODUCTION TO TRAFFIC ENGINEERING



Thomas R. Currin

Publisher: Cengage Learning

ISBN: 9781111578619

Year : 2013

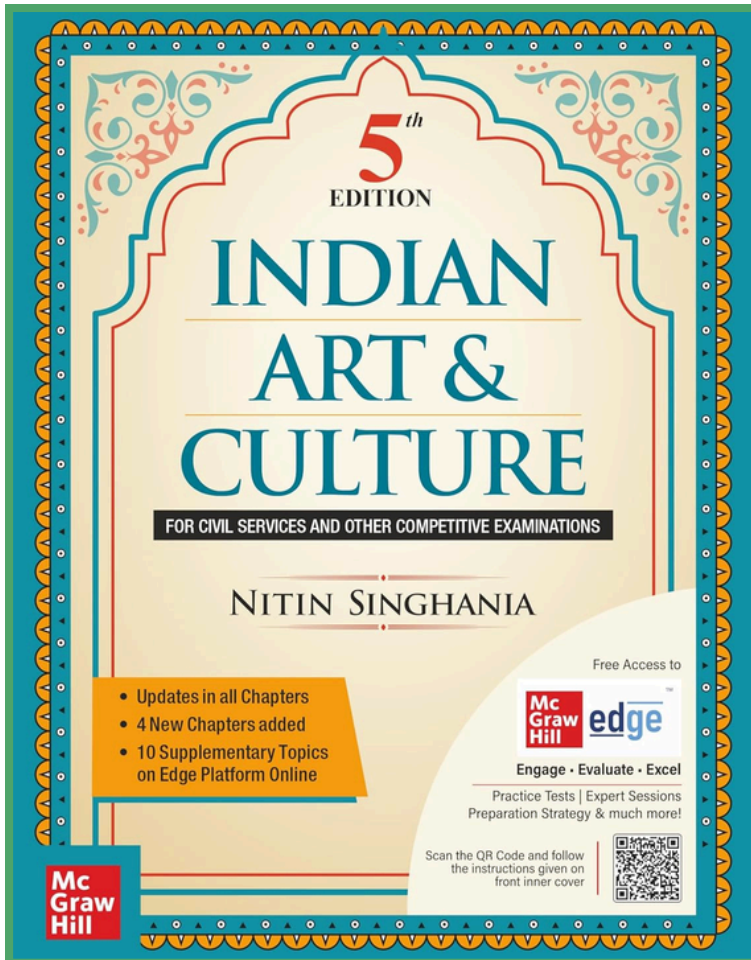
Read in the Library



About the Book

INTRODUCTION TO TRAFFIC ENGINEERING: A MANUAL FOR DATA COLLECTION AND ANALYSIS is meant to aid both the student of traffic engineering and the transportation professional in sound data collection and analysis methods. It presents step-by-step techniques for several traffic engineering topics. Each topic is introduced in a consistent manner, and data collection and analysis forms are provided for each study. Studies are organized to facilitate inclusion in a formal transportation engineering report.

INDIAN ART AND CULTURE : FOR CIVIL SERVICES



Nitin Singhania

Publisher: McGraw Hill Education

ISBN: 9789355325921

Year : 2024

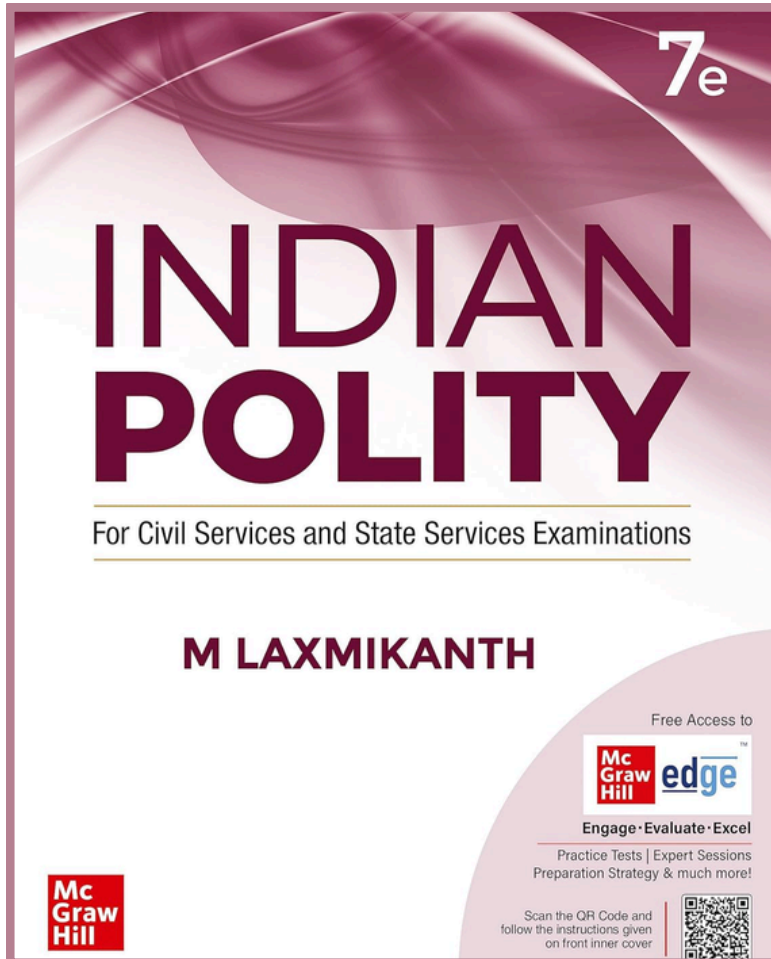
Read in the Library



About the Book

Indian Art and Culture is a 'must have' for every aspirant of Civil Services Preliminary and Main Examinations. The book consists of the latest questions from 2023 UPSC prelims, along with 25 chapters and a pluck out chart on UNESCO heritage sites in India. It contains concise notes with vast coverage of topics covered in the syllabus of Indian Heritage and Culture for General Studies-Paper I in Civil Services Examination. This bestselling title contains a wide ranged knowledge base of Indian art, paintings, music, and architecture presented with rich visuals.

INDIAN POLITY : FOR CIVIL SERVICES AND STATE SERVICES EXAMINATIONS



M. Lakshmi Kanth

Publisher: McGraw Hill Education

ISBN: 9789355325341

Year : 2024

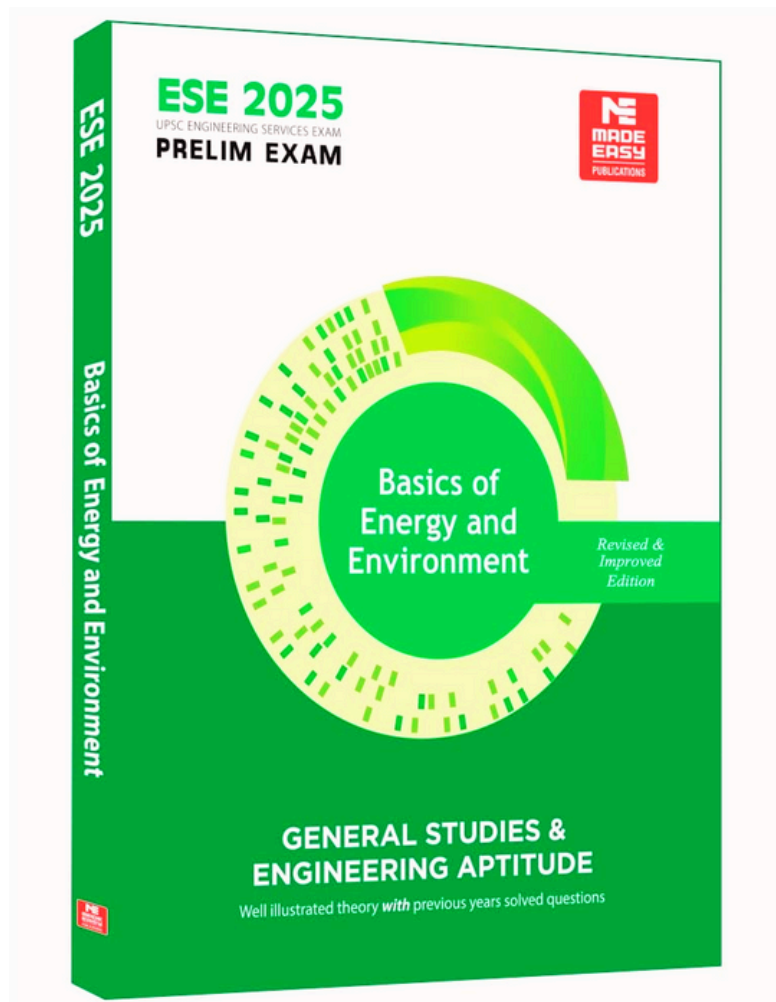
About the Book

Indian Polity For Civil Services and State Services Examinations is a must-read for the aspirants appearing for the Civil Services examinations as well as the other State Services examinations. It is conceived to cater to the requirements of not just the students appearing for competitive examinations but also postgraduates, research scholars, academicians and general readers who are interested in the country's political, civil, and constitutional issues. The chapters have been thoroughly revised as per the recent developments. It delves into the intricacies of the Indian Constitution, governance, and political dynamics.

Read in the Library



ESE 2025 : BASICS OF ENERGY AND ENVIRONMENT



Made Easy Publications

Publisher: Made Easy Publications

ISBN: 9789362024817

Year : 2024

About the Book

Indian Polity For Civil Services and State Services Examinations is a must-read for the aspirants appearing for the Civil Services examinations as well as the other State Services examinations. It is conceived to cater to the requirements of not just the students appearing for competitive examinations but also postgraduates, research scholars, academicians and general readers who are interested in the country's political, civil, and constitutional issues. The chapters have been thoroughly revised as per the recent developments. It delves into the intricacies of the Indian Constitution, governance, and political dynamics.

Read in the Library



BOOKS PUBLISHED BY TIET FACULTY

Applied Deep Learning

The book presents you with a thorough introduction to AI and Machine learning, starting from the basics and progressing to a comprehensive coverage of Deep Learning with Python. You will be introduced to the intuition of Neural Networks and how to design and train them effectively. Moving on, you will learn how to use Convolutional Neural Networks for image recognition and other visual tasks. The book then focuses on localization and object detection, which are crucial tasks in many applications, including self-driving cars and robotics. You will also learn how to use Deep Learning algorithms to identify and locate objects in images and videos. In addition, you will gain knowledge on how to create and train Recurrent Neural Networks (RNNs), as well as explore more advanced variations of RNNs. Lastly, you will learn about Generative Adversarial Networks (GAN), which are used for tasks like image generation and style transfer.

Author: Dr Rajkumar Tekchandani, Prof Neeraj Kumar

Publisher: BPB Publication: ISBN: 9789355513724

Read in the Library



Applied Deep Learning

Design and implement your own Neural Networks to solve real-world problems



Dr. Rajkumar Tekchandani

Dr. Neeraj Kumar

Aditya Bhushan Pant · Ashish Dwivedi ·
Ratan Singh Ray · Anurag Tripathi ·
Atul Kumar Upadhyay ·
Shiv Poojan Editors

Skin 3-D Models and Cosmetics Toxicity

Additionally, by elucidating the current state and challenges hindering the commercialization of 2D MXenes, this resource serves as a valuable guide for navigating the path towards widespread adoption. This book is an essential resource for scientists, engineers, research researchers, and students who want to delve into the captivating realm of 2D MXenes. Its interdisciplinary approach makes it a valuable tool.

Authors: Atul Upadhyay et al.

Publisher: Springer

ISBN: 9789819928033

Skin 3-D Models and Cosmetics Toxicity

MXenes: Emerging 2D Materials

This book focuses on the expanding market for 2D MXenes and their increasing importance in future applications. It provides a thorough understanding of MXenes and their derivatives by exploring their complex composition and chemical diversity. The book provides a thorough examination of synthesis processes, characterization methodologies, and crucial attributes, which may give significant insights for both researchers and engineers. Furthermore, the book explores diverse applications of MXenes, spanning from energy storage and catalysis to electronics and beyond, thus highlighting their vast potential in driving technological innovation.

Additionally, by elucidating the current state and challenges hindering the commercialization of 2D MXenes, this resource serves as a valuable guide for navigating the path towards widespread adoption. This book is an essential resource for scientists, engineers, research researchers, and students who want to delve into the captivating realm of 2D MXenes. Its interdisciplinary approach makes it a valuable tool.

Authors:

Om Prakash Pandey

Piyush Sharma

Publisher: Springer

ISBN: 9789819740635

Om Prakash Pandey
Piyush Sharma Editors

MXenes: Emerging 2D Materials

Springer

FORTHCOMING EVENTS

ZOTERO REFERENCE MANAGEMENT TRAINING

Central Library is organizing a training session on ZOTERO Reference Management Tool on 16th January 2025. (3-5 PM)

Zotero is free and open-source reference management software to manage bibliographic data and related research materials, such as PDF and ePUB files. Features include web browser integration, online syncing, generation of in-text citations, footnotes, and bibliographies, integrated PDF, ePUB and HTML readers with annotation capabilities, and a note editor, as well as integration with the word processors Microsoft Word, LibreOffice Writer, and Google Docs.

Interested may join the session by registering at



ZOTERO
REFERENCE MANAGEMENT
Training

16 JAN, 2025
3:00 PM - 05:00 PM

REGISTER NOW <https://bit.ly/zoterotraining>

SPRINGER NATURE



SPRINGER NATURE
AUTHOR'S WORKSHOP ON
**SCIENTIFIC
WRITING &
PUBLISHING**



AUTHOR WORKSHOP ON

"SCIENTIFIC WRITING AND PUBLISHING"

We are delighted to invite you to a prestigious Author's Workshop on Scientific Writing and Publishing, conducted by Springer Nature, scheduled for Wednesday, **29th January 2025, from 2:00 PM to 5:00 PM**. The workshop will take place at LT201.

This workshop offers a unique opportunity to enhance your skills in academic writing and gain insights into the publishing process from one of the most esteemed academic publishers in the world.

REGISTER AT



WANT TO CONTRIBUTE

“THE BEST RESEARCH
YOU CAN DO IS TALK TO
PEOPLE”

--- TERRY PRATCHETT



Content Compiler **Mandeep**

Mandeep is working in the Central Library as a Junior Library and Information Assistant. He may be contacted as mandeep1@thapar.edu

CONTACT US Librarian

Nava Nalanda Central Library
Thapar Institute of Engineering and Technology,
Patiala – 147004, Punjab, INDIA

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FOR MORE DETAILS : LOGGED IN TO [HTTPS://CL.THAPAR.EDU](https://cl.thapar.edu)