

Instrumentation for Civil Engineering Applications

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Product Description

Instrumentation for Civil Engineering Applications

The objective of this course is to understand instrumentation, sensor theory and technology, data acquisition, digital signal processing, life time analysis and decision making. The course introduces theoretical and practical principles of design of sensor systems. Topics include: transducer characteristics for acoustic, current, temperature, pressure, electric, magnetic, gravity, salinity, velocity, heat flow and optical devices; limitations on these devices imposed by building/structure/ pavement environments; signal conditioning and recording, noise, sensitivity and sampling limitations. The contents of the book cover the principles of state-of-the-art systems being used in physical infrastructure/bridges/ buildings/pavements, etc. For laboratory work, the course will allow students to prepare, deploy and analyse observations from standard instruments.

Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the students understand what is expected out of him/her after completing that unit.
- Book provides lots of information on sensors, working principle of instrumentations, error analysis and QR codes for further learning
- Figures, tables and photographs are inserted to improve the clarity of the topics
- Questions are given for practice of the students after every chapter
- Solved numerical problems are illustrated in the chapters.

Expectations:

- Learners should recognize the best measurement technique for a physical system

- Learners should identify ways to improve measurement and evaluation
- Learners should build up a life-long learning culture on application of proper instruments for Civil Engineering structures.

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Author

Ashim Kanti Dey

Prof. Ashim Kanti Dey Professor Department of Civil Engineering, National Institute of Technology, Silchar Dr.

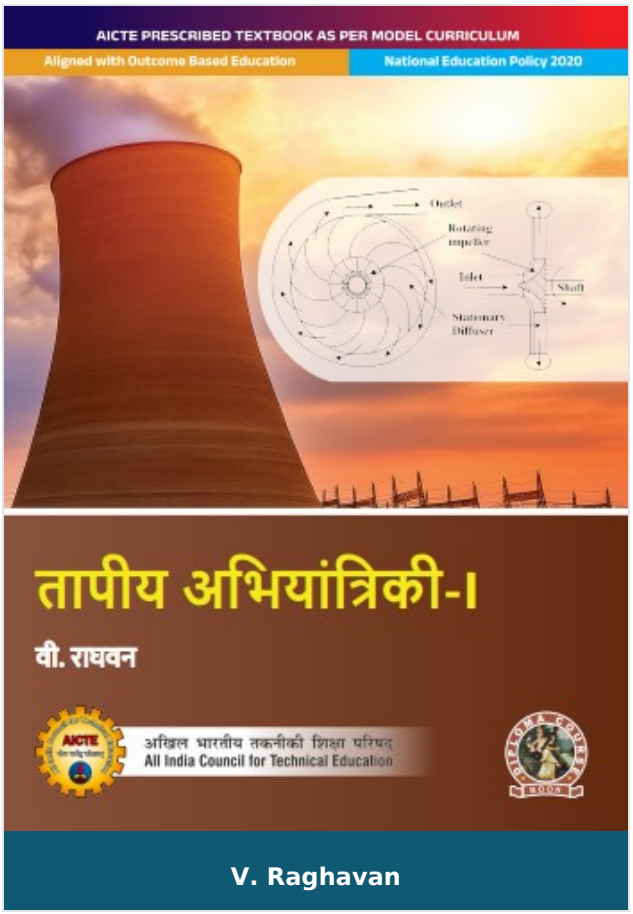
Manita Das

Dr. Manita Das Assistant Professor Department of Civil Engineering, ITER, SOA (Deemed to be University)

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Thermal Engineering - I

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Product Description

Thermal Engineering - I

This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and furl cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring Important properties used in the analysis.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.

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- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

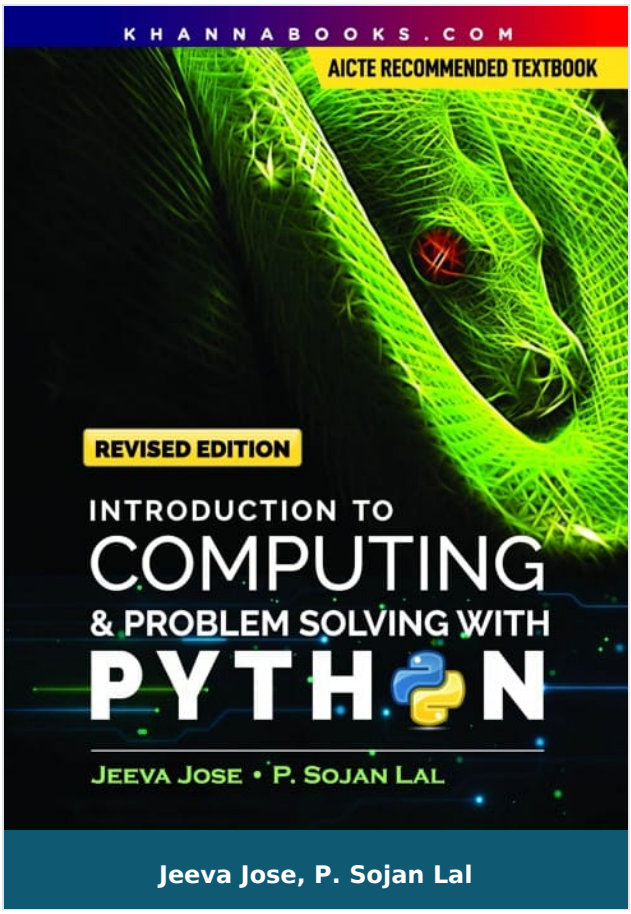
V. Raghavan

Dr. V. Raghavan

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Jeeva Jose, P. Sojan Lal

Introduction to Computing & Problem Solving with PYTHON

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Product Description

This book 'Introduction to Computing and Problem Solving with Python' will help every student, teacher and researcher to understand the computing basics and advanced Python Programming language.

The Python programming topics include the reserved keywords, identifiers, variables, operators, data types and their operations, flow control techniques which include decision making and looping, modules, files and exception handling techniques. Advanced topics like Python regular expressions, Database Programming and Object Oriented Programming concepts are also covered in detail. All chapters have worked out programs, illustrations, review and frequently asked interview questions. The simple style of presentation makes this a friend for self-learners. More than 300 solved lab exercises available in this book is tested in Python 3.4.3 version for Windows.

The book covers syllabus for more than 35 International Universities and45 Indian universities like Dr. APJ Abdul Kalam Technological University, Christ University, Savitribai Phule Pune University, University of Delhi, University of Calicut, Mahatma Gandhi University, University of Mumbai, AICTE, CBSE, MIT, University of Virginia, University of Chicago, University of Toronto, Technical University of Denmark etc.

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- Program Logic and Flowcharts
- Introduction to Python
- Data Types and Operations
- Flow Control
- Functions
- Modules and Packages
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- Database Programming

Author

Jeeva Jose

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

P. Sojan Lal

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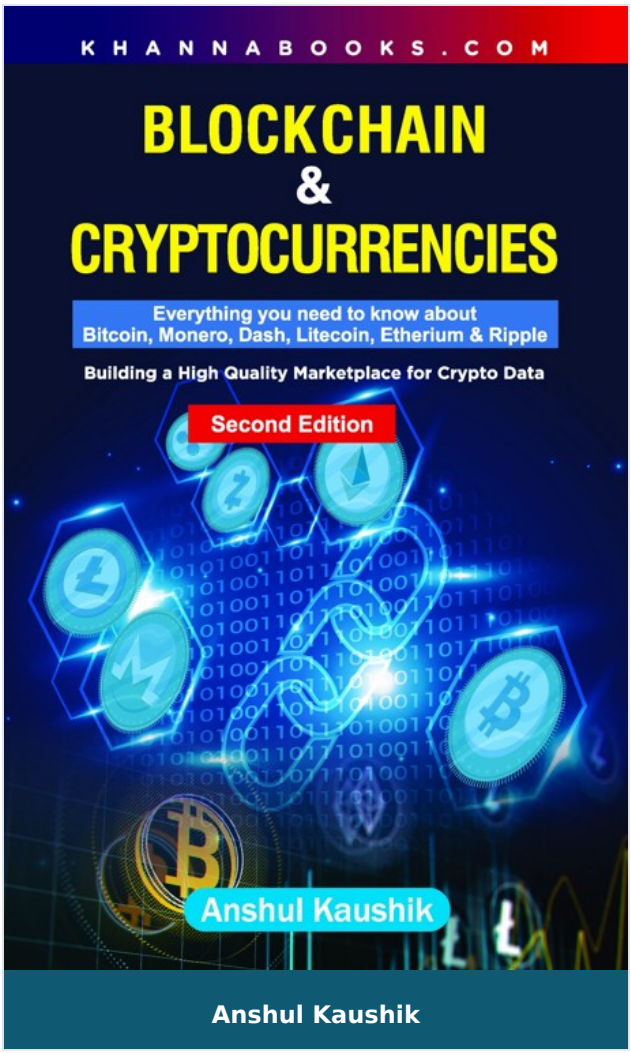
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P. Sojan Lal was awarded PH. D. from Cochin University of Science and technology, kerala, India. He is Professor, department of computer science and engineering, MBITS, kerala, India and Research supervisor for PH. D. programs of University of petroleum & Energy Studies, Dehardun, India as well as school of computer science, Mahatma Gandhi University, kerala, India. He has 29 Years of academic and industrial experience with 60 publications inclusive of two technical books. His joint publications are recorded with world records India (2014) for most number of papers in several international technical journals within short duration. He has also obtained MBA from starthclyde Business School, Scotland, UK and is a fellow of the Institution of engineers (FIE-India). He was the district Operationg Board member for ASME, Middle east and Africa region. He is a member of ISTE, ASME, IEEE, CSI and engineering Council (UK). He is listed in marquis who's who in the world since 2009 as the biographical reference representing the world's most accomplished individuals.

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Anshul Kaushik

Block Chain & Crypto Currencies

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Product Description

This book is the author's attempt to peep into the world of Block Chain & Crypto Currencies without getting into complex algorithms and mathematics. Both the technical and the transactional aspects are explained with help of simple metaphors for all classes of readers. For curious readers who frequently encounter "Bit Coin", "Block Chain" & Crypto Currencies" in their daily lives without a clue, this book can be considered as an authentic introductory text. Prospective investors can find this book useful in making decisions for choosing a suitable currency for investments. Readers who have already invested will find enough literature to understand the technical and functional aspects of resources for its readers to explore. This text also introduce readers with other popular crypto currencies Monero, DASH, Lite Coin, Etherium & Ripple.

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Author

Anshul Kaushik

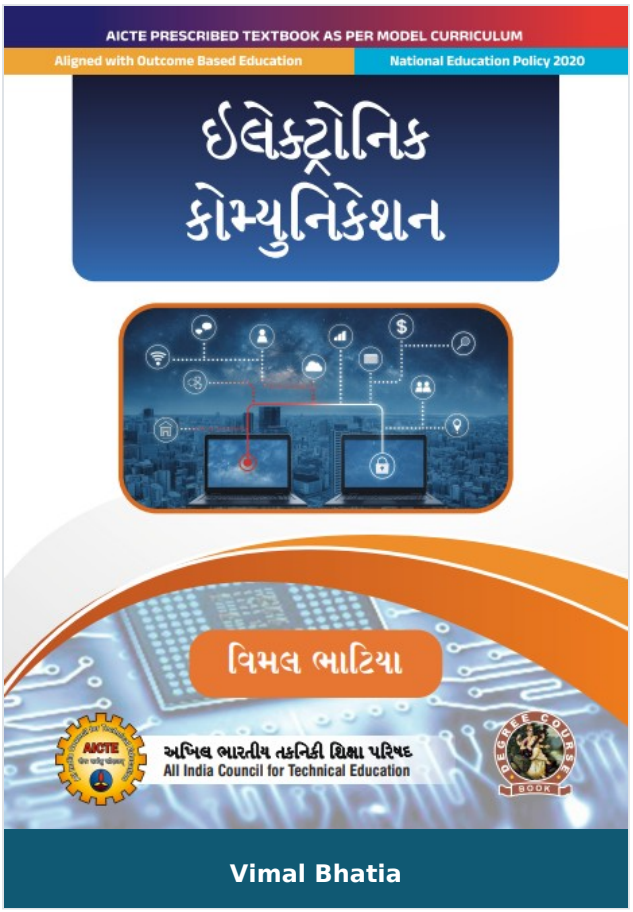
Anshul Kaushik is a computer science graduate and holds MCSE, CCNA, AIX and CEH certifications. He has acquired strong knowlwdge in Network Security, Windows and UNIX Platforms. His topics of interest include penetration testing, includent reports, security profile generation, counter attacks technology and got honored with "Original Mind Award 2002" by minister of information technology for excellence in science and technology. He was also awarded by intel in the Talent Discovery and magazines is his hoppy. He is currently working in IT department of Honda Siel Cars, India as a security specialist and

system administrator. He had also worked for different companies as a security advisor and IT specialist. He can be contacted by email:akaushik@rogers.com

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Author

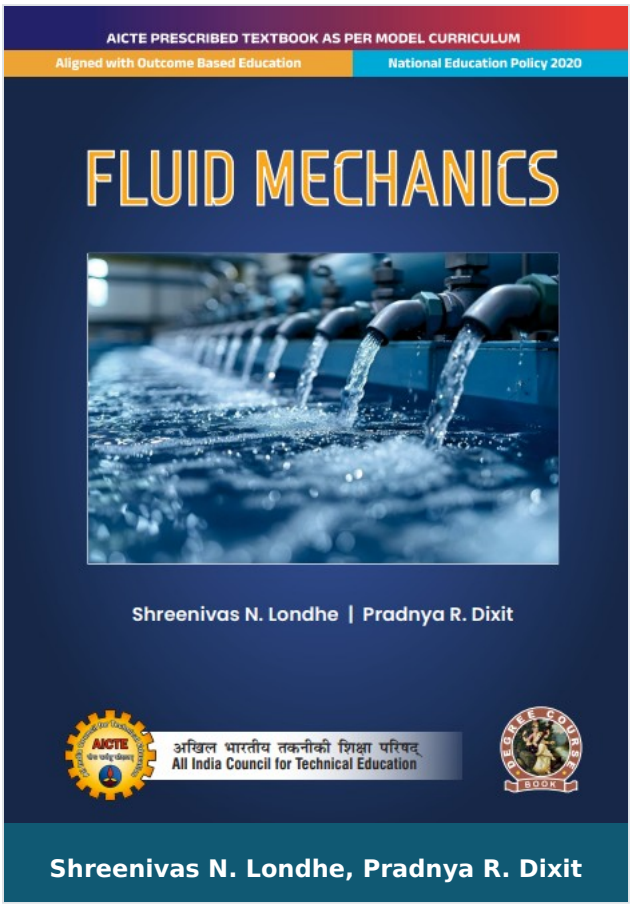
Vimal Bhatia

Dr. Vimal Bhatia Professor, Department of Electrical Engineering, Indian Institute of Technology Indore

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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Fluid Mechanics

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Product Description

Fluid Mechanics

This book familiarizes the students to different domains of fluid Mechanics. This book includes fundamentals of fluid mechanics in total of six units as properties of fluids, fluid statics, buoyancy and flotation, fluid kinematics, fluid dynamics and dimensional analysis. Main purpose of this book is to help under graduate civil engineering students to understand and apply the basics of fluid mechanics to applications in engineering problems. The content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP)2020.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Index

Author

Shreenivas N. Londhe

Dr. Shreenivas N. Londhe Professor, Department of Civil Engineering Vishwakarma Institute of Information Technology, Pune Dr.

Pradnya R. Dixit

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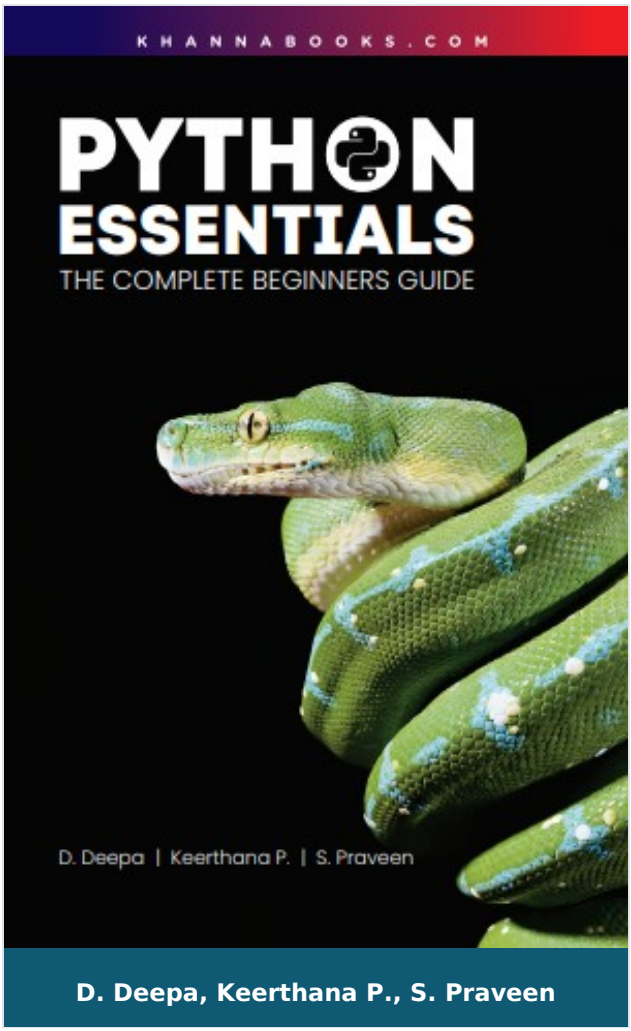
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Dr. Pradnya R. Dixit Associate Professor, Department of Civil Engineering Vishwakarma Institute of Information Technology, Pune

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D. Deepa, Keerthana P., S. Praveen

Python Essentials (The Complete beginners Guide)

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Product Description

Python Essentials (The Complete beginners Guide)

Python is the bedrock of modern technology—powering everything from Data Science and Machine Learning to Web Development and System Automation. But where do you start?

Python Essentials: The Complete Beginner's Guide is your definitive, practical roadmap. Built specifically for absolute beginners, this book capitalizes on Python's simple, English-like syntax to ensure a swift and successful journey into coding.

This guide moves beyond theory, equipping you with the fundamental logic and Object-Oriented Programming (OOP) principles needed for professional work. By the time you finish, you won't just know Python; you'll be able to build, debug, and implement real-world solutions. Launch your career or elevate your productivity—the power of Python starts here.

Salient Features:

This guide provides a complete, hands-on path to Python mastery, focusing on modern, practical skills:

- **Core Foundations**: Master the essential building blocks, including variables, expressions, and primary data structures (Lists, Strings, Tuples, Dictionaries).
- **Object-Oriented Programming (OOP)**: Gain a clear understanding of OOP principles (Classes, Objects, Inheritance) to write robust, scalable, and reusable code.
- **GUI and Database Development**: Develop practical tools by learning to build Graphical User Interfaces (GUI) with Tkinter and manage data using the SQLite database library.
- **Debugging and Error Handling**: Acquire crucial development skills like effective Exception Handling and code tracing using Python's built-in debugger, pdb.

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- **Real-World Project Skills**: Learn to manage projects professionally with topics like File Handling, utilizing Virtual Environments, and performing efficient Code Reviews.
- **Versatile Programming**: Understand Python's support for multiple paradigms, including procedural, functional, and object-oriented styles, preparing you for any job role.

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- Object-Oriented Programming Concepts
- Functions, File Handling, and Error Handling
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- Networking and Hands-on Project

Author

D. Deepa

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Keerthana P.

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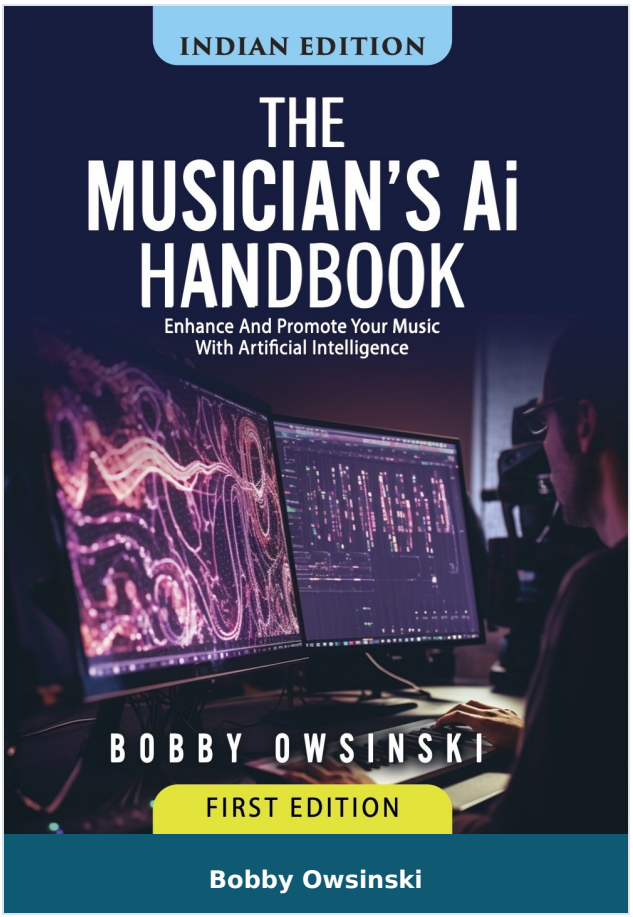
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The Musician's Ai Handbook (Indian Edition)

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Product Description

The Musician’s Ai Handbook is a comprehensive look at how musicians, artists, songwriters, producers, and anyone in the music business can use artificial intelligence as a highly creative tool to generate new ideas and help to promote their music. It’s packed with useful how-to’s to help you get the most out of just about any Ai platform, while showing you skills and fundamentals that won’t become outdated.

Part 1 of the book explains Ai’s buzzwords in a way that anyone can understand then takes a look at the many gray areas of Ai copyright that users must be concerned with.

Part 2 looks at using Ai composition and production platforms to develop new song and lyric ideas, and how the many Ai audio tools and plugins, and the Ai mixing and mastering platforms can lift your songs to a pro level.

Finally, Part 3 covers the latest in Ai graphics and video generation, as well as the best ways to use Ai chatbots for music business and promotion.

Topics include:

. How Ai music generation really works so you’ll know what it can and can’t do

. Why looking closely at Ai copyright can save you from legal problems down the road

. How a well- crafted mega prompt can generate the best Ai results

. How to use AI audio tools for compression, EQ. limiting, reverb, noise reduction, track separation, and song analysis to make your mixes sound more professional

. Everything you wanted to know about virtual singers and voice cloning to take song’s vocals to another level

. Tips for using Ai composition platforms to generate new songs and lyric ideas that you never would have thought of

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. Getting the most from Ai music video-generation platforms

. How to use Ai image generation to create pro-level graphics and branding

. Why using a chatbot to design music marketing and release plans can save you money

And much more

If you’re worried that Ai will sap your creativity or move too fast for you to keep up, then The Musician’s Ai Handbook will put your mind at ease as it proves that artificial intelligence is just an extremely helpful tool. Follow renowned author, producer and engineer Bobby Owsinski as he takes you through everything you need to know to make Ai the best music friend you’ve ever had.

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- About Bobby Owsinski

Author

Bobby Owsinski

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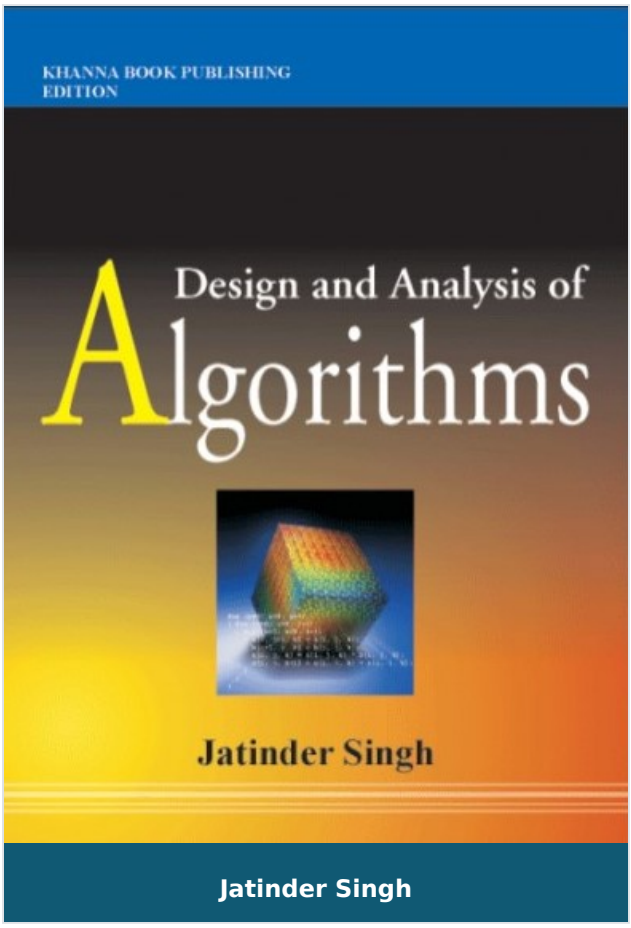
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Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music in the Internet Age, and more. He’s also a contributor to Forbes covering the new music business, his popular production and music industry blogs are over 8 million visits, and he’s appeared on CNN and ABC News as a music branding and audio expert. Visit BobbyOwsinskiBlog.com, his music industry blog at Music3Point0.com, his podcast at BobbyOInnerCircle.com, and his website at BobbyOwsinski.com.

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Jatinder Singh

Design & Analysis of Algorithms

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Product Description

This book is an ideal test to provide in depth knowledge on design and analysis of algorithm. The purpose of the book is to make the students understand the fundamentals of design and analysis of algorithm conveniently. It is meant to be used as a text book for BSc/BCA/MCA/MSc/ B.E./B. Tech/MSc/MS/M. Tech and diploma courses, and as a reference book.

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- Randomization
- Amortized Analysis of Data Structure

Author

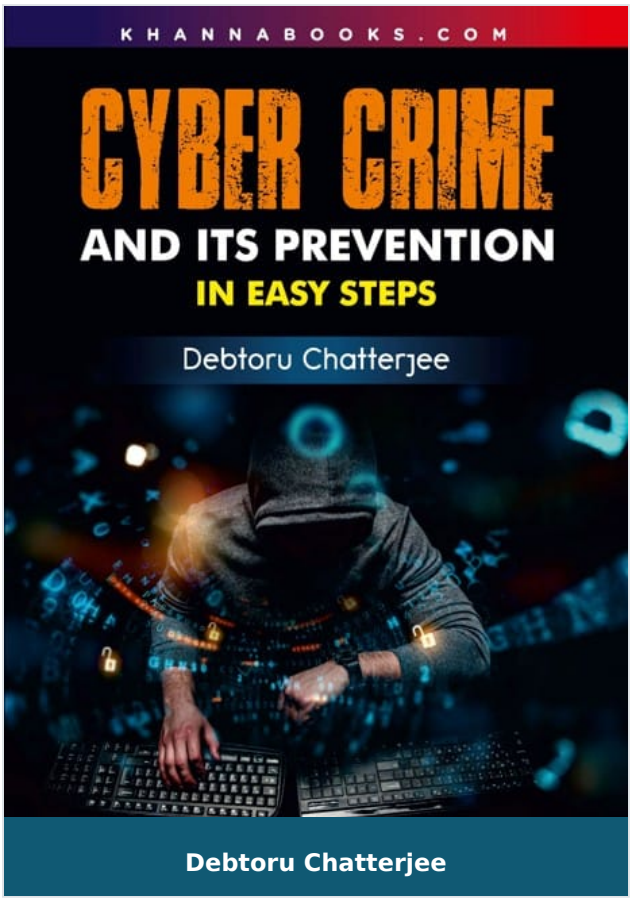
Jatinder Singh

Er. Jatinder Singh (Asst. Professor) Dept.of I.T. , S.S.S. College of Engg. And Tech. Gurdaspur (PB)

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Debtoru Chatterjee

Cyber Crime and its Prevention in Easy Steps

Author :	Debtoru Chatterjee
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Product Description

This book has been divided into two parts. The learning outcomes from each are as follows:

PART -1

The reader will gain awareness of how fraudsters:

- acquire one-time passwords via social engineering to commit OTP- based crimes. - exploit vulnerabilities to create false ATMs. - take advantage of poor over-sight mechanisms to remain undetected. - exploit air gaps to manipulate data in transit for fraud. - mislink accounts in a cross-institutional content to syphon off funds. - launder stolen proceeds. - take advantage of default configurations to gain unauthorized network privileges and how to devise counter-measures to deter such frauds.

PART -2

The Reader will gain awareness of how:

- hackers break into android smartphones to steal OTP and other confidential information - encrypted information to and from your smartphone or computer can be intercepted - the computer can be hacked with or without social-engineering - websites are scanned for vulnerabilities and exploited - enemy computers are targeted in cyber wars - Security Operations Centers function and tactical and policy measures to counter such threats.

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Author

Debtoru Chatterjee

Debtoru Chatterjee, an Indian Postal Service Officer (1994 batch), has served 11 years in a central police organization, including as an Inspector General, besides a five-year stint as an army Colonel. An honor graduate from Presidency College Calcutta, he holds and M.Sc. (Distinction) in Cyber Forensics and Information Security from the University of Madras; an MBA (IT Systems) (Distinction) from ICFAI; and a Master in Business Laws from National Law School, Bangalore. A keen student of Kali Linux and Python, he has also authored a companion book "Cyber-Crime and its Prevention in Easy Steps".

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