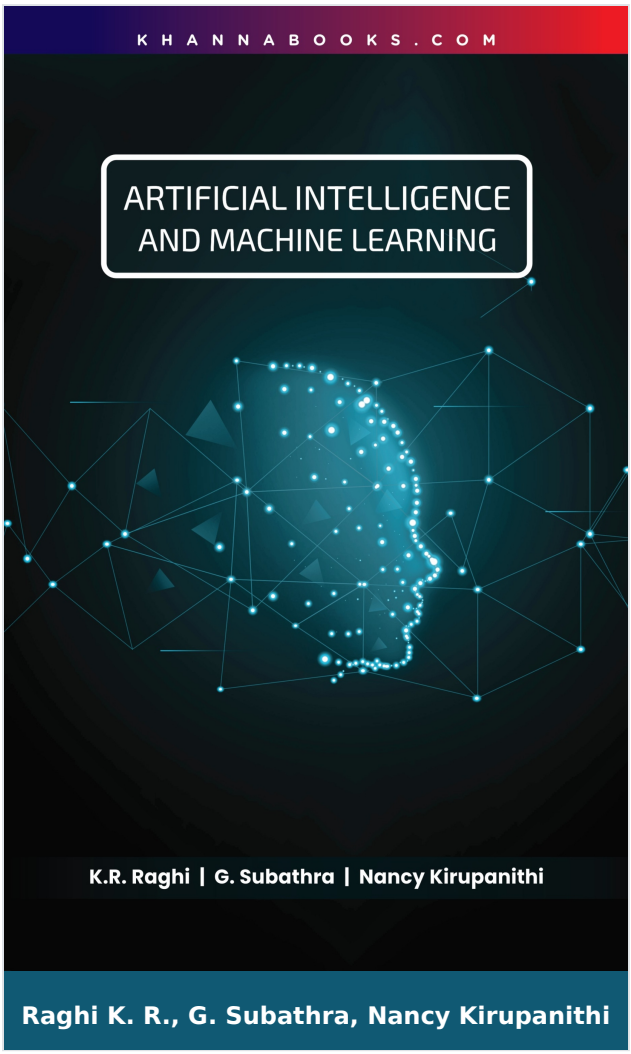


Artificial Intelligence and Machine Learning

Author :	Raghi K. R., G. Subathra, Nancy Kirupanithi
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Product Description

Artificial Intelligence and Machine Learning serves as a comprehensive and indispensable guide to two of the 21st century's most transformative fields. Recognizing the remarkable growth of AI and ML, which influences nearly every aspect of modern life—from self-driving cars and virtual assistants to healthcare diagnostics and financial forecasting—this book is designed to provide a structured approach to mastering these complex technologies.

The core purpose of this text is to bridge the gap between theoretical foundations and practical implementations. It begins by establishing the fundamental concepts of Intelligent Agents, their structure, and their decision-making processes, followed by a thorough exploration of uninformed and heuristic search strategies like A* search and optimization methods such as Simulated Annealing. The book then transitions to the heart of learning systems, covering essential Supervised and Unsupervised Learning paradigms, Neural Networks, and techniques to mitigate deep learning challenges like the Vanishing Gradient Problem. Crucially, it dedicates an entire unit to the Design and Analysis of ML Experiments, teaching readers how to validate models rigorously using K-Fold Cross-Validation and statistical tests.

This resource is tailored for a diverse audience, including students, aspiring data scientists, software engineers, and academic researchers, providing the valuable insights necessary to foster innovation and shape the future of intelligent systems. It simplifies daunting topics through easy-to-understand explanations, supplemented by real-world examples and case studies, making AI and ML accessible to all levels of expertise.

Salient Features:

• Intelligent Agent Core: Define the core components and types of intelligent agents (Simple Reflex, Model-Based, Goal-Based, Utility-Based), and analyze their structure and

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decision-making processes.

• Advanced Search Methods: Explore heuristic search (A*) and optimization techniques like Hill Climbing and Simulated Annealing for navigating complex, large-scale problem spaces.

• Learning Paradigms: Detailed coverage of Supervised and Unsupervised Learning, along with the principles of PAC Learning and handling Model Selection and Generalization.

• Deep Network Architectures: A unit dedicated to Neural Networks, explaining Multilayer Perceptrons and addressing deep learning challenges like the Vanishing Gradient Problem with solutions like ReLU and Dropout.

• Optimization Techniques: In-depth exploration of network training using Gradient Descent and Error Backpropagation, covering advanced optimization methods like Stochastic Gradient Descent for efficiency.

• Experimental Design: Essential unit on the rigor of ML development, including guidelines for experiments, K-Fold Cross Validation, Bootstrapping, and using statistical tests for model comparison.

• Real-World Applications: Illustrated examples of ML in practice, including Self-Driving Cars, Healthcare Diagnosis, and Personalized Recommendation Systems, showing technology's transformative impact.

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Raghi.K.R Subathra.G Nancy Kirupanithi

G. Subathra

Raghi.K.R Subathra.G Nancy Kirupanithi

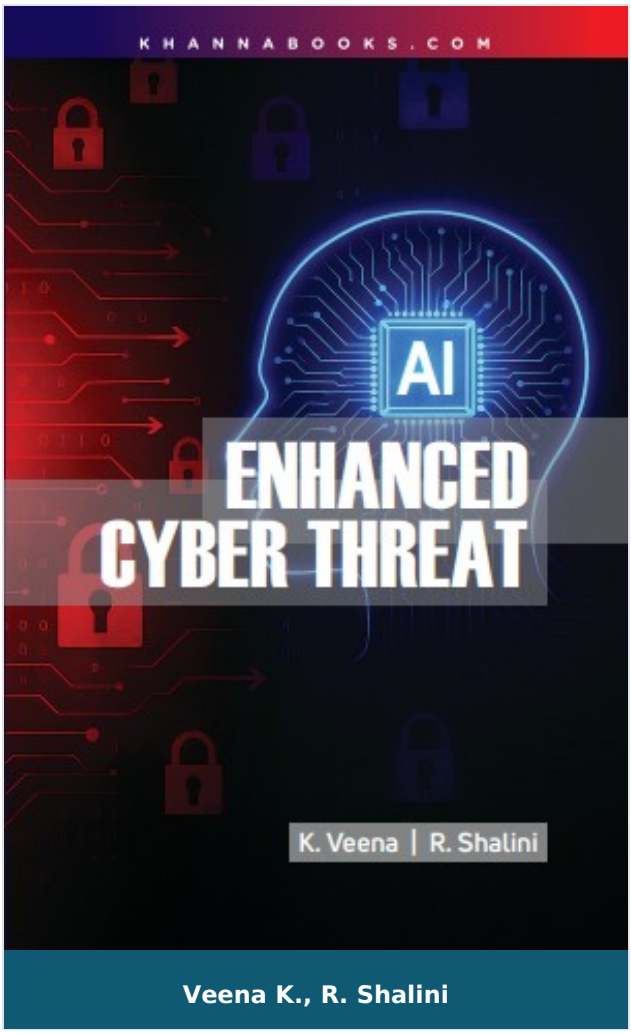
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Veena K., R. Shalini

AI Enhanced Cyber Threat

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Product Description

AI Enhanced Cyber Threat

In the rapidly evolving digital landscape. Artificial intelligence (AI) presents a double – edged sword. While it serves as the foundation for next-generation defense systems. It is simultaneously being weaponized by adversaries to create sophisticated, adaptive, and highly evasive cyber threats.

AI Enhanced cyber threats offers a vital, comprehensive analysis of this critical intersection. This book meticulously explores the emerging methodologies where Ai and Machine Learning are used to launch automated spear-phishing campaigns, craft polymorphic malware, and bypass conventional security measures. Crucially, it provides IT professionals, security analysis, and researchers with actionable, cutting-edge strategies to counter these advanced threats.

From implementing adversarial training to fortify defense models to establishing secure deployment practices in complex IoT and cloud environments, this text is the definitive guide to building an intelligent, resilient, and adaptive cybersecurity posture in the AI age.

Salient Features:

- **Comprehensive threat analysis:** In-depth exploration of how adversaries utilize AI to automate attacks, enhance phishing efficacy, and deploy adaptive malware.
- **Advanced Mitigation Strategies:** Detailed coverage of AI-powered defense mechanisms, including Adversarial training to improve model resilience against attacks.
- **Real-time security implementation:** Focus on deploying AI-powered anomaly detection systems for continuous, real-time monitoring ongoing compliance in modern infrastructure.

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- **Secure IoT and cloud deployment:** best practices for secure configuration of cloud services, network segmentation, and ensuring ongoing compliance in modern infrastructure.
- **Data security fundamentals:** Insights on establishing effective patch management processes and conduction regular security audits and risk assessments.
- I**deal for:** undergraduate and postgraduate students, researchers, cybersecurity professionals, and network administrators seeking to master the principles of AI-driven security.

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- Impact of AI on cybersecurity
- Secure web and application security
- Cyber threats

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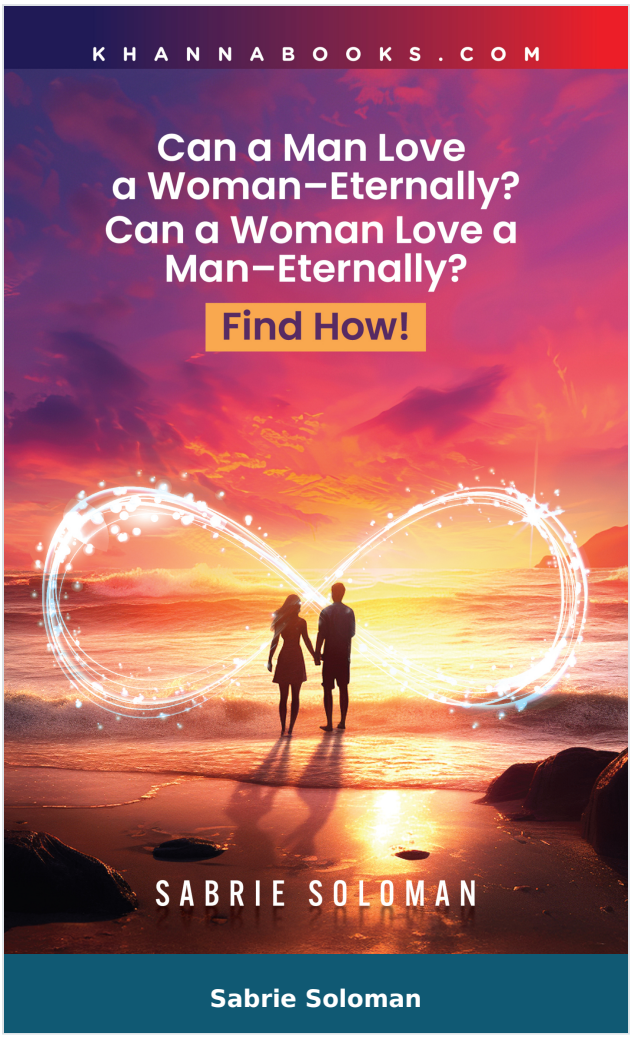
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Can A Man Love a Woman - Eternally? Can a Woman Love a Man - Eternally? Find How

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Product Description

Can a man love a woman – Eternally? Can a women love a men –Eternally? Find How!

This thoughtful book explores the timeless essence of romantic love between man and women through scriptural, moral, and emotional lenses. It highlights the roles of sacrificial love, mutual respect, and personal growth in relationships. Drawing from ancient wisdom and modern insights, it guides couples to nurture enduring, spiritually rooted bonds. This book encourages understanding, commitment, and transformation: making it meaningful companion for anyone seeking a deeper, lasting connection in today’s evolving world.

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- Lust in The Life of a Man or a Woman
- The Concept of a Contrite Heart in Men and Women
- Navigating Daily Crises
- Don’t Give up Yet
- How Should a Man Love a Woman – Eternally?
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Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design

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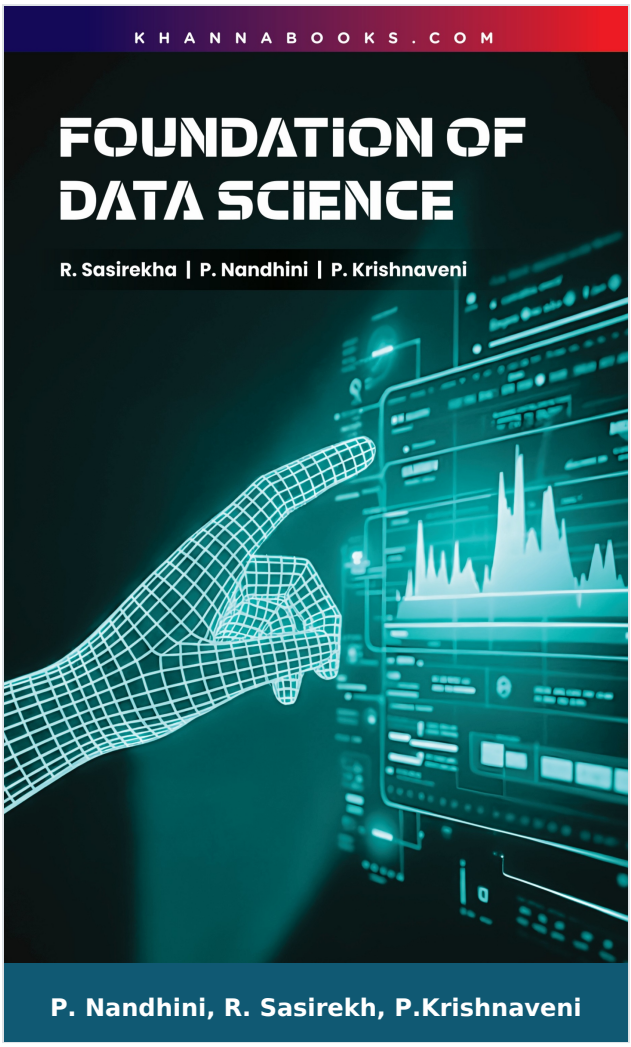
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for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA

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Foundation of Data Science

Author :	P. Nandhini, R. Sasirekh, P.Krishnaveni
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Product Description

Foundation of Data Science is a comprehensive textbook designed to provide readers with a strong foundation in modern data science concepts, techniques, and applications. In today's data-driven world, the ability to collect, process, clean, analyze, and interpret large volumes of data is essential across industries. This book serves as a structured and practical guide to the complete data analysis pipeline, with a particular emphasis on Natural Language Processing (NLP) and Big Data Analytics.

The text begins with the fundamentals of data acquisition, covering methods for collecting data from multiple sources, including internal databases, external repositories, APIs, and web scraping techniques. It then explores critical data preprocessing activities such as data cleaning, transformation, quality control, handling missing values, and noise reduction, enabling readers to prepare datasets for accurate analysis and modeling.

A significant portion of the book is dedicated to Natural Language Processing, introducing key concepts such as Bag-of-Words, Regular Expressions, Tokenization, Stemming, Lemmatization, TF-IDF, and Sentiment Analysis. Through practical examples and case studies, readers learn how to transform unstructured textual information into meaningful insights for decision-making and business intelligence.

The book further extends into Exploratory Data Analysis (EDA), data visualization techniques, and modern Big Data frameworks such as Hadoop and Spark. Combining theoretical understanding with practical implementation, this resource is suitable for students, researchers, data analysts, and professionals seeking to build expertise in data science and text analytics. By integrating NLP methodologies with contemporary Big Data concepts, the book provides a complete toolkit for extracting value from data and succeeding in a data-centric environment.

Salient Features:

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- Data Sourcing & APIs: Explains data acquisition techniques from internal and external sources, including web scraping and the use of APIs such as Google Maps and IBM Watson for real-time data collection.
- Data Cleaning & Wrangling: Covers systematic approaches to data preprocessing, transformation, data munging, handling noisy datasets, and resolving inconsistencies to improve data quality.
- Core NLP Toolkit: Introduces essential Natural Language Processing concepts, including Bag-of-Words, Regular Expressions, Tokenization, Sentence Splitting, and pattern matching techniques.
- Linguistic Normalization: Clearly differentiates between stemming and lemmatization, demonstrating how linguistic rules and morphological analysis are applied to derive meaningful root forms of words.
- Feature Engineering: Discusses advanced text representation techniques such as TF-IDF (Term Frequency–Inverse Document Frequency), stop-word removal, and feature extraction methods for enhanced analytical performance.
- Practical Visualization: Provides hands-on guidance on data visualization and Exploratory Data Analysis (EDA), including the use of professional tools such as Tableau for effective data presentation.
- Big Data Ecosystem: Introduces the principles, characteristics, and frameworks of Big Data, including technologies such as Hadoop and Spark for managing and processing large-scale datasets.
- Real-World NLP Case Study: Presents a comprehensive Sentiment Analysis case study demonstrating how NLP techniques can be applied to extract opinions, emotions, and actionable insights from textual data across diverse domains.

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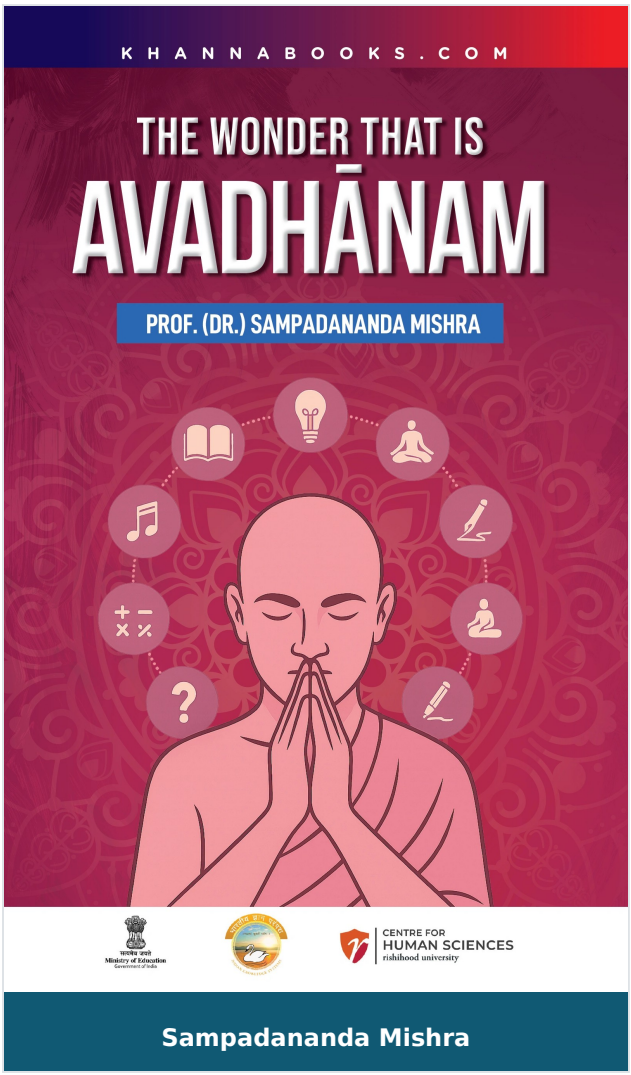
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The Wonder That is Avadhanam

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Product Description

The year 2000 holds a special place in my heart because that's when I first discovered something truly magical – Avadhāna. It happened during a seminar in Pondicherry, and little did I know that this art form would become a source of inspiration and wonder in my life. I was part of the team organizing an Avadhāna program, and my job was simple. But what unfolded on that day was anything but ordinary. Avadhāna, which once seemed like a distant and mystical concept, came alive before my eyes, challenging my skepticism and leaving an unforgettable impression. Watching the Avadhāna performance was like witnessing a breathtaking dance of the mind. The performer's skill, speed, and brilliance pushed the boundaries of what I thought was possible. It was more than just a show; it was a journey into a world where intellect and creativity danced together in perfect harmony. Since that day, my life has been a journey of exploration into the art of Avadhāna. I felt a deep connection and a need to share its wonders with the world. I realized there was a missing piece—a book that could introduce Avadhāna to those curious about it, a guide for those wanting to understand its essence. As I delved into the details of Avadhāna, I discovered not just a skill but an endangered art form in need of recognition. It became clear that the survival of Avadhāna depended on creating awareness—helping people see its beauty, challenges, and importance in our cultural heritage. In my quest to understand Avadhāna, I stumbled upon the remarkable life of Vasishtha Ganapati Muni, a true master of Avadhāna. His ability to vi perform Avadhāna was extraordinary, and learning about his life became a fascinating part of my exploration. His anecdotes of composing poetry on the spot and rearranging complex syllabic structures during Avadhāna were awe-inspiring. Vasishtha Ganapati Muni, a shining star in the world of Avadhāna, became a source of inspiration for me. His journey not only showcased the heights achievable in Avadhāna but also left an everlasting mark on this ancient tradition. His story has become a guiding force, pushing me to unravel the layers of this intricate art form and share its beauty with the world. Ganapati Muni's

incredible skills in Avadhāna were truly mindblowing. In one event in Madras, he was challenged to compose a hundred verses on Nala and Damayanti's story in just an hour. Muni's creative flow was so rapid that he crafted twenty-five verses in just six minutes, leaving everyone in awe. His prowess in rearranging syllables in a challenging verse and even reciting it backward showcased his brilliance. At the end of an Avadhāna, he flawlessly critiqued a famous verse, leaving the audience thunderstruck. These moments from his journey highlight the intricate brilliance and indomitable memory power needed in Avadhāna. Following in Vasishtha Ganapati Muni's footsteps, I found not just inspiration but a deep connection to the heart of Avadhāna. His extraordinary abilities reminded me that within the realms of memory, creativity, and intellectual agility, there's a universe waiting to be explored—an invitation to witness the wonders of the human mind through Avadhānam. Continuing my exploration, I discovered two more incredible stories: G N K Ramaswaroop from Enkoor village and Nishchal, a nine-year-old prodigy from Hyderabad. Their stories shed light on Avadhānakalā, the ancient art of multiple concentration. Ramaswaroop, focused on the Bhagavad Gita, amazed audiences by memorizing all 700 shlokas. His performances weren't just recitations; they were a dance of intellect, responding swiftly to questions in various forms. Whether reciting a shloka given a starting word or number, identifying a shloka when recited in reverse, or engaging in the rhythmic Preface vii antyakshari of Gita verses, Ramaswaroop showcased mental agility that set him apart as a true master of Avadhānakalā. Then there's Nishchal, a nine-year-old maths whiz from Hyderabad. While others focused on poetry, Nishchal channeled his concentration and mind power into solving complex maths problems and memorizing 20-digit numbers effortlessly. His feats proved that Avadhānakala goes beyond language and subject matter, captivating audiences with the beauty of mathematics. Colonel H. S. Olcott, an American military officer, journalist, lawyer, and the co-founder and first President of the Theosophical Society, writes in one of his articles published in 'The Theosophist magazine for 1886', about an occasion on which a memory expert of South India simultaneously kept in mind and did the following twelve things and afterward

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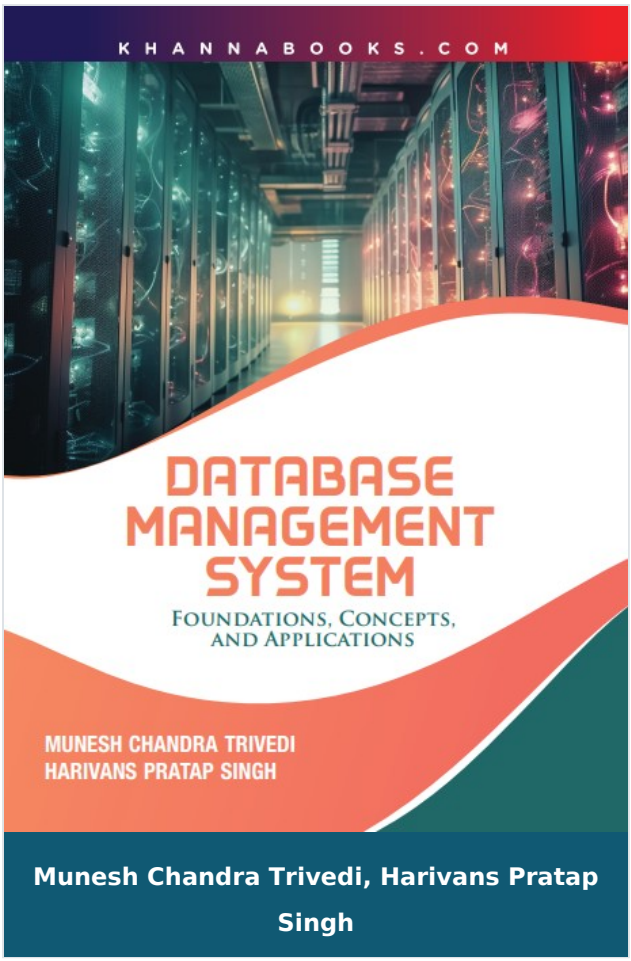
Sampadananda Mishra

Dr. Sampadananada Mishra, a distinguished scholar in Sanskrit and indian Knowledge Systems (IKS), has dedicatedhis life to the study, preservation, and propagation of india's richlinguistic and philosophical heritage. He holds a BA and MA in Sanskrit from utkal University, where he also completed his Ph.D.with a dissertation on the evolution of the Sanskrit language, inspired by Sri Aurobindo's perspectives. Dr. Mishra is renownedfor founding the World's first 24-hour Sanskrit radio channel, Divyavani Sanskrit Radio, in 2013, adFor his role as Associate Editor of the ' Collected Works of Vasishtha kavyakantha Ganapati Muni; a landmark twelve- volume publication . His contributions to Sanskrit have earned him several prestigious awards, Including the president's Maharshi Badarayana Vyasa Samman and the Sri Aurobindo Puraskar 2024. His Career has been marked by a passionate commitment to ensuring that Sanskrit and IKS flourish within both academic and cultural landscapes.

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Munesh Chandra Trivedi, Harivans Pratap Singh

Database Management System(Foundations, Concepts, And Applications)

Author :	Munesh Chandra Trivedi, Harivans Pratap Singh
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Product Description

My Book of Database Management System” is a complete and structured guide to the principles and applications of DBMS, designed for a wide audience—from undergraduate students to professionals preparing for GATE, IT MNC interviews, and real-world data system design.

This book provides a deep, yet accessible exploration of database theory, architectures, query languages, transaction management, and modern trends in distributed and NoSQL systems. Aligned with the syllabi of leading engineering colleges and global universities, it combines academic precision with industry-relevant insight, making it ideal for both learning and long-term reference.

KEY FEATURES OF THE BOOK

- Comprehensive Coverage
- Conceptual Clarity with Practical Insight
- GATE and Interview Ready
- Hands-On Approach
- Step-By-Step Explanation of Core Topics
- Modern and Emerging Topics Included
- Visually Supported Learning
- Code-Level Understanding
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- NORMALIZATION

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Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32

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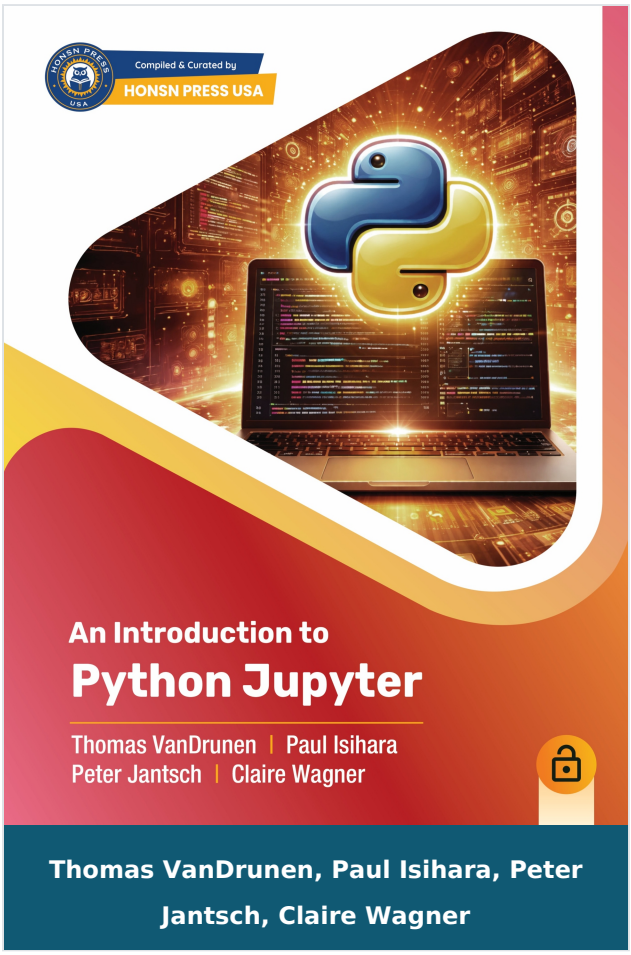
Harivans Pratap Singh

Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.

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An Introduction to Python Jupyter (HONSN PRESS USA)

Author :	Thomas VanDrunen, Paul Isihara, Peter Jantsch, Claire Wagner
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Product Description

An Introduction to Python Jupyter Notebooks for College Math Teachers” is a comprehensive and evolving classroom resource designed to bridge the gap between theoretical collegiate mathematics and practical computational application. This text serves as an essential guide for college math teachers and their students seeking to seamlessly integrate the power of Python and Jupyter Notebooks (JNBs) into their curriculum. Unlike traditional textbooks, this entire work is presented in the form of modular Jupyter Notebooks, with each section structured for interactive engagement. This format allows for the direct input and execution of Python code alongside explanatory text, charts, and multimedia resources, making mathematical concepts immediately demonstrable and reproducible.

The book’s core theme is to enrich and enliven the study of mathematics using this cutting-edge tool. It offers immense practical value by covering a wide range of collegiate mathematics, from foundational Python programming and Exploratory Data Analysis (EDA) to advanced topics in Calculus, Linear Algebra, Statistical Inference, Differential Equations, and Complex Variables. Crucially, it connects these abstract concepts to complex real-world societal applications, such as modeling disease spread (COVID-19), analyzing urban data, and groundwater flow. Each chapter is designed to be read independently and includes dedicated JNB labs with solutions, providing a flexible framework for experienced educators to modify and tailor content to their specific courses, ultimately serving as a useful starting point to harness computational power for mathematical education.

Salient Features

- Interactive Learning Format: The entire book is written as modular Jupyter Notebooks, allowing for immediate, interactive execution of code alongside

explanatory content, which is ideal for classroom use.

- Comprehensive Curricula Integration: The content seamlessly integrates Python programming with core college mathematics, including Calculus, Linear Algebra, Probability, and Statistical Inference for multiple course levels.
- Foundational Coding Guide: Provides a detailed Python Programming Guide, introducing essential concepts like data types, control flow, functions, and working with libraries such as NumPy and Pandas.
- Applied Data Science: Dedicated chapters on Exploratory Data Analysis (EDA) and Advanced Data Analysis provide hands-on experience in real-world data investigation and text classification using Python.
- Societal Modeling Applications: Features extensive application-based chapters, such as using Differential Equations to model public health issues (e.g., COVID-19) and Complex Variables for groundwater analysis.
- Practical Lab Exercises: Every chapter includes a dedicated Jupyter Notebook Lab and corresponding solutions, offering practical exercises that teachers can customize and students can use for independent practice.
- Optimization & Systems: Explores modern quantitative techniques like Linear Algebra for Optimization, K-means Clustering, and introduces the fundamental concepts of Complex Systems and Statistical Physics.

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Author

Thomas VanDrunen

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Paul Isihara

Paul Isihara

Peter Jantsch

Peter Jantsch

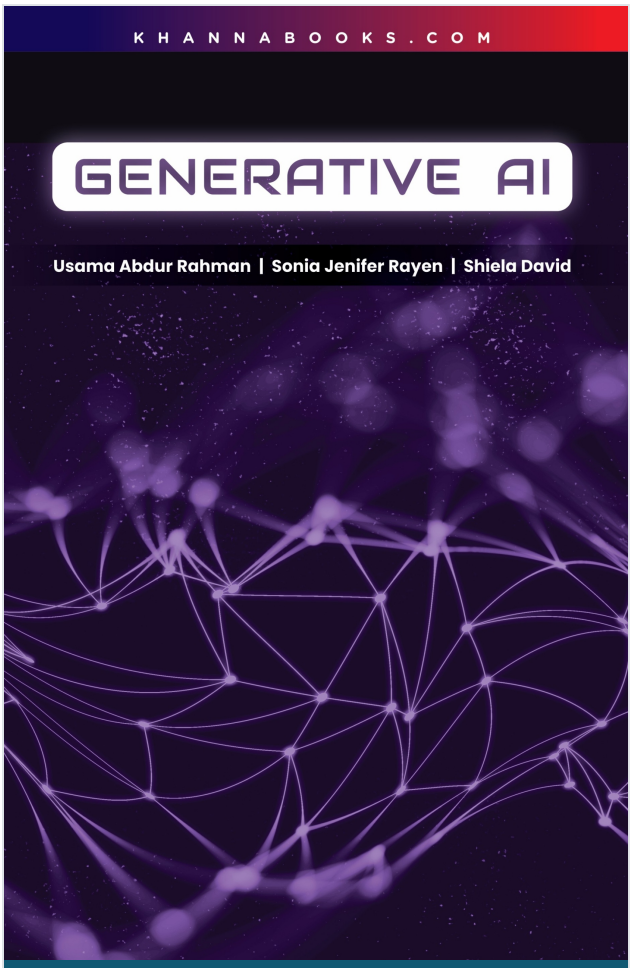
Claire Wagner

Claire Wagner

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Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman

Generative AI

Author :	Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman
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Product Description

Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

Beyond foundational concepts, the book explores advanced generative techniques such as Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), explaining their architectures, workflows, and practical applications. Readers gain insights into how generative models create realistic text, images, and multimedia content, while also understanding the principles behind AI Agents, prompt engineering, and modern AI development frameworks.

The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

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evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

Salient Features:

- Foundational AI Concepts: Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
- Transformer Architecture Deep Dive: Thoroughly explains Transformer Models, the Attention Mechanism, and the distinctions between encoder-based architectures (such as BERT) and decoder-based Large Language Models.
- Large Language Model Mastery: Covers the principles, architectures, and applications of LLMs, including their use in natural language processing, content generation, summarization, translation, and conversational AI systems.
- Advanced Generative Models: Presents comprehensive coverage of Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs), detailing their components, workflows, training methodologies, and practical applications.
- Practical AI Agents & Frameworks: Introduces AI Agents and modern development frameworks such as Lang Chain, enabling readers to build scalable and production-ready Generative AI applications.
- Cross-Industry Applications: Demonstrates the transformative impact of Generative AI across multiple sectors, including healthcare, manufacturing, finance, software development, and digital media.
- Model Evaluation Techniques: Explains important evaluation metrics such as Perplexity, BLEU Score, and ROUGE Score, helping readers assess and benchmark the performance of generative and language models.

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- Future & Ethical Directions: Explores emerging topics including Multimodal AI, prompt optimization techniques (Top-K and Top-P sampling), ethical AI practices, Quantum AI, and Neuromorphic Computing.

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- Image Generation
- Model Evaluation and Future of Generative AI

Author

Sonia Jenifer Rayen

Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Shiela David

Shiela David

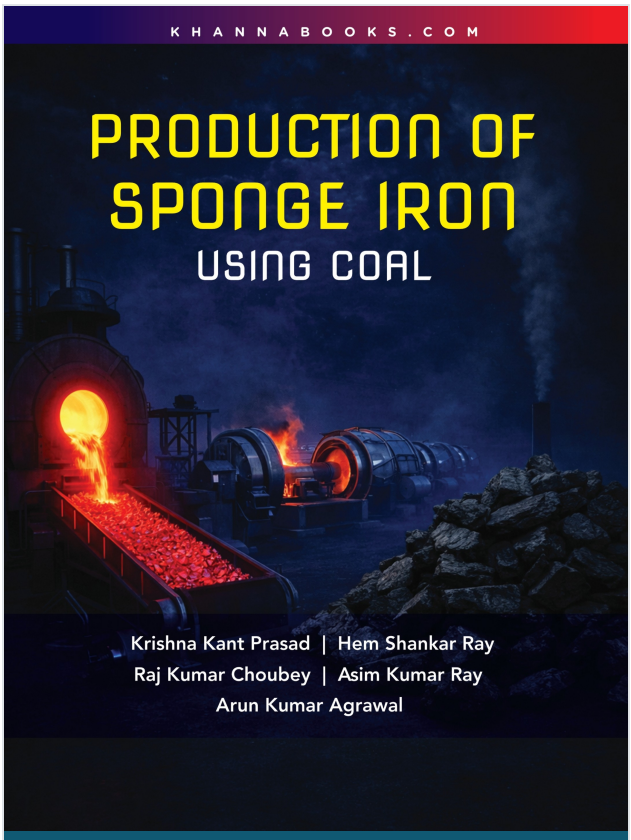
Usama Abdur Rahman

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Krishna Kant Prasad, Hem Shankar Ray, Raj Kumar Choubey, Asim Kumar Ray, Arun Kumar Agarwal

Production of Sponge Iron Using COAL

Author :	Krishna Kant Prasad, Hem Shankar Ray, Raj Kumar Choubey, Asim Kumar Ray, Arun Kumar Agarwal
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Product Description

Production of Sponge Iron Using COAL

Production of Sponge Iron using Coal: Rotary Kiln, Tunnel Kiln and using Gas from Coal is a definitive technical guide that explores India's global leadership in the coal-based direct reduction of iron ore. While international markets often rely on gas-based shaft processes, this book highlights how India has pioneered and perfected the use of rotary kilns to utilize abundant, high-ash non-coking coal-resources often dismissed by foreign experts as "muck". The text provides an exhaustive analysis of the thermodynamic, kinetic, and aerodynamic principles that govern the solid-state reduction of iron oxides.

The book serves as a vital bridge between theoretical research and industrial application, documenting decades of expertise from leading metallurgists. It broadens the traditional focus on rotary kilns to include emerging commercial successes in tunnel kiln technology and coal gasification-based shaft furnaces. Beyond technical specifications, the authors connect modern engineering with India's ancient metallurgical heritage, such as the storied Iron Pillar of Delhi. This work is an essential resource for metallurgical students, researchers, industry professionals, and entrepreneurs seeking to understand the economic and technical nuances of sustainable ironmaking in coal-rich regions.

Salient Features

- Rotary Kiln Dominance: Detailed analysis of the rotary kiln's primary role in India, covering its versatility in processing lump hematite and its unique operational strengths and weaknesses.
- Scientific Process Modeling: Comprehensive chapters on mathematical modeling, CFD analysis, and reaction kinetics that allow for precise control over heat transfer and solid movement.

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- Alternative Reduction Technologies: In-depth exploration of tunnel kilns as a viable solution for reducing magnetite and iron ore fines, filling a critical gap in traditional kiln operations.
- Coal Gasification Insights: Evaluation of the economic and technical feasibility of converting coal into reducing gas (CO and H) to supplement production in shaft furnaces.
- Resource Optimization: Strategies for utilizing high-ash Indian coal and recirculating char to enhance energy efficiency and reduce the environmental footprint of ironmaking.
- Practical Engineering Focus: Guidance on plant design, refractory management, and overcoming common industrial hurdles like accretion or "ring formation" inside kilns.
- Historical Contextualization: A unique addendum on India's ancient ironmaking legacy, offering a perspective on the longevity and evolution of sponge iron technology.
- Future-Ready Strategies: Critical projections on hydrogen-based ironmaking and the integration of sponge iron into blast furnaces to reduce costly metallurgical coke consumption.

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- Addendum

Author

Krishna Kant Prasad

Dr. Krishna Kant Prasad (born on 24th January 1945 in Bhagalpur, Bihar), after completing B.Sc. Hons. (Chem.) from Bhagalpur University, he did his B.E., M.E. and Ph.D. in Metallurgical Engineering from the Indian Institute of Science, Bangalore. After brief teaching stints at the Banaras Hindu University and MR Engineering College, Jaipur he joined R&D Division of Tata Steel, Jamshedpur in 1972. He moved to RDCIS, SAIL, Ranchi in 1981 as in-charge of R&D activities in the Sponge Iron Pilot Plant Complex and since then he was actively involved in steering R&D activities both in Sponge Iron Making and Alternate Iron Making areas. He retired from SAIL, in January 2006. Thereafter, he served as a visiting professor in the Department of Metallurgical Engineering in IT (now IIT), BHU, Varanasi, for two and then joined NITK (National Institute of Technology Karnataka) in Surathkal, initially as the Ministry of Steel Chair Professor, and then in various capacities - all equivalent to a visiting professor - for seven and a half years. Dr. Prasad has guided four Ph.D. students. He has to his credit over 130 research papers, five registered copyrights and holds two patents on sponge iron making. He has authored four books entitled Sponge Iron Making in Rotary Kiln, Chemical and Metallurgical Thermodynamics, Advances in Rotary Kiln Sponge Iron Plant and Integrated Iron- and Steelmaking. He has also edited two books - "Trends in Beneficiation and Agglomeration of Iron Ore' and 'Steel Plant Technologies: An Overview. He is life member of the Indian Institute of Metals, Electrochemical Society of India and the Computer Society of India. E-mail: kkpmprnc@gmail.com. Professor

Hem Shankar Ray

Hem Shankar Ray (born on 19th June 1940, Jabalpur, Madhya Pradesh) unfortunately left for his heavenly abode on 28th April 2023 just as the preparation of the manuscript

started. Prof. H. S. Ray is widely regarded as one of the greatest minds of the Indian scientific community and a very well-known name in the field of Extractive Metallurgy. He obtained his B.Tech. (Hons.) in Metallurgical Engineering from the Indian Institute of Technology, Kharagpur (1962) and M.A.Sc. and Ph.D. degrees from the University of Toronto, Canada (1963, 67). He was with I.I.T. Kanpur from 1967-80 as Lecturer and Asst. Professor. In between he served as Manager/Senior Technologist - Research and Development, Pilkington Research Centre, Lathom, England (1977-1979). He then served as Professor of Metallurgical Engineering (1980-1990) and Dean of Students Affairs (1988-90) at the Indian Institute of Technology, Kharagpur. Prof. Ray served the Regional Research Laboratory, Bhubaneswar (now IMMTD) as Director from 1990-2000 (two terms). On retirement he served as an Emeritus Scientist at the Central Glass and Ceramic Research Institute, Calcutta. He holds several patents including 2 U.S. patents to his credit. His areas of interest included thermal analysis, kinetics, extractive metallurgy, energy and R&D administration. He guided about 40 Ph.D. students and 20 M.Tech. students for their thesis work. He has published about 500 papers in reviewed journals and conference proceedings and over 26 books. He also edited 15 Conference proceedings and written about 50 technical reports. He also wrote numerous other non-technical articles, editorials, etc. Prof. Ray received several awards in recognition of his work and these include the National Metallurgists Day Award, G.D. Birla Award and two Kamani Gold Medals of the Indian Institute of Metals. He received the Distinguished Alumni award from IIT Kharagpur, which, interestingly, he shared that year with the Google CEO, Sundar Pichai. He served several companies and R&D laboratories as consultant or member of Boards/Research Councils. He was associated with several Professional Bodies and served as President, Indian Institute of Mineral Engineers and Indian Thermal Analysis Society; also, as a Vice President of the Millennium Institute of Energy and Environment Management and was an Editor of a popular science magazine Everyman's Science. He also served in several other institutions in various capacities. He was deeply involved with professional bodies such as IIM (Indian Institute of Metals),

MIEEM (Millennium Institute of Energy and Environmental Management), IAPQR (Indian Association for Productivity, Quality and Reliability) etc. and used to be regular and most 0sought-after speaker in their seminars/workshops. Apart from his stellar achievements in the world of academics, Prof Ray was well known for his interests and capabilities in other spheres of life such as Music and Art. His creative abilities spanned far and wide across writing books of both scientific and nonscientific nature, proficiency in several musical instruments like Guitar, Tabla, Violin and Esraj and painting in both oil and water colour. His office workspace at his home housed an eclectic mix of all forms of Arts. His most unusual interest was in Magic. He had a keen interest in the subject and built several magic tricks himself. He also performed in public as a professional magician. Prof Ray was a great friend to all his colleagues and students. His abilities to build positivity in all his circles made him stand out as an exceptional human being. His associations with people were lifelong. He held deep respect for all his relationships and loved nurturing the young and rising. From writing science fiction books for teenagers to help inculcate interest in core science in school to mentoring startups in science and tech and to helping and problem solving institutions to break through status quo to push forward, Prof Ray had pretty much done it all. He remained a self-driven human being with natural leaderships skills combined with motivating and inspiring others to rise, right till the end. Sri

Raj Kumar Choubey

Raj Kumar Choubey , was born on August 11, 1954 at Sikariya, Bhojpur, Bihar (unfortunately he passed away on February 19, 2024). He passed B.Sc. from the University of Burdwan in 1974 and Bachelor of Engineering from MREC (now MNIT) in Jaipur Rajasthan in the year 1980. He joined M/s Jaipur Metals and Electricals in 1980 and operated the first induction furnace of India. In 1982 he joined M/s Hindustan Motors and served till the year 2000. There he developed various grades of automobile grade steel and was a part of the team who fabricated the first Diesel Engine for automobiles in India. Thereafter he decided to be a start-up entrepreneur. His portfolio lately read: Owner -

Metcon Power Consultant & Engineers, Kolkata, having global clients base including Tata Steel and Jindal Steel. Director - Bhagwati Power & Steel Limited, Raipur, CG. Director - RNT Medicare Private Limited, Kolkata. Partner - Premier Hygienic Services, Kolkata. He involved himself in innovation and setting up commercial plants based on self developed technology for: Manufacturing DRI (Sponge Iron) from Mill Scale, DRI through Tunnel Kiln Technology, Development of Metallic Saggers for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr.

Asim Kumar Ray

Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary

Kiln Sponge Ironmaking". He has to his credit about 140 research publications and three patents. Shri Arun Kumar Agrawal , born in 1963, is a 1985 metallurgical engineering graduate from the then Institute of Technology, Banaras Hindu University (IT-BHU - now IIT-BHU), Varanasi. He joined MECON Limited, Ranchi in the year 1986 as Management Trainee (Technical) after one year stint in Hindustan Aluminium Co. (Hindalco - Aditya Birla Group) at Renukoot in Uttar Pradesh. He joined the Iron Making Division of MECON and was deeply involved in the basic engineering and design, detailed engineering, consultancy and project management as well as site services of various Iron Making Projects particularly DR (Direct reduction) projects - both coal and gas based. In Blast Furnace area, he was the co-ordinator for NMDC Blast Furnace in Nagarnar and 1.2 mtpa Blast Furnace Complex of M/s PTKS, Indonesia. He was involved in engineering of a number of coal and gas-based DR projects, most prominent being world's first syngas-based DR plant in Angul for JSPL. He possesses over 37 years of varied and rich experiences in Iron and Steel technology, conceptualisation of projects along the entire value chain and development of process flow sheets, making and guiding the preparation of multitudes of reports, etc. Besides he has rendered expert services to Ministry of Steel (MOS) by being part of several committees, policy and norms formulation and their subsequent regulation as well as handling of diverse technical queries. In the process he immensely contributed to the development and growth of Indian Steel Industry. Shri Agrawal was deeply involved in all business verticals of MECON Limited, both technical & commercial. During his illustrious career, he displayed rare strategic insight and business acumen for enhancing company's business prospects. Shri Agrawal rose to the level of Director (Technical) of MECON in June, 2020 and continued for three years before superannuation in 2023. Under his leadership, a new Design Cell was created to develop specific tailor-made innovative designs and engineering solutions for new application and import substitutions. He was instrumental in launching of company's in-house prestigious quarterly technical journal "Techquest" to provide platform for sharing technical knowledge as well as unique design, engineering & project experiences and site based

solutions among the engineers to help them learn from each other's experience and make constant improvement in their subsequent endeavours.

Arun Kumar Agarwal

Dr. Krishna Kant Prasad (born on 24th January 1945 in Bhagalpur, Bihar), after completing B.Sc. Hons. (Chem.) from Bhagalpur University, he did his B.E., M.E. and Ph.D. in Metallurgical Engineering from the Indian Institute of Science, Bangalore. After brief teaching stints at the Banaras Hindu University and MR Engineering College, Jaipur he joined R&D Division of Tata Steel, Jamshedpur in 1972. He moved to RDCIS, SAIL, Ranchi in 1981 as in-charge of R&D activities in the Sponge Iron Pilot Plant Complex and since then he was actively involved in steering R&D activities both in Sponge Iron Making and Alternate Iron Making areas. He retired from SAIL, in January 2006. Thereafter, he served as a visiting professor in the Department of Metallurgical Engineering in IT (now IIT), BHU, Varanasi, for two and then joined NITK (National Institute of Technology Karnataka) in Surathkal, initially as the Ministry of Steel Chair Professor, and then in various capacities - all equivalent to a visiting professor - for seven and a half years. Dr. Prasad has guided four Ph.D. students. He has to his credit over 130 research papers, five registered copyrights and holds two patents on sponge iron making. He has authored four books entitled Sponge Iron Making in Rotary Kiln, Chemical and Metallurgical Thermodynamics, Advances in Rotary Kiln Sponge Iron Plant and Integrated Iron- and Steelmaking. He has also edited two books - "Trends in Beneficiation and Agglomeration of Iron Ore' and 'Steel Plant Technologies: An Overview. He is life member of the Indian Institute of Metals, Electrochemical Society of India and the Computer Society of India. E-mail: kkpmprnc@gmail.com. Professor Hem Shankar Ray (born on 19th June 1940, Jabalpur, Madhya Pradesh) unfortunately left for his heavenly abode on 28th April 2023 just as the preparation of the manuscript started. Prof. H. S. Ray is widely regarded as one of the greatest minds of the Indian scientific community and a very well-known name in the field of Extractive Metallurgy. He obtained his B.Tech. (Hons.) in Metallurgical Engineering

from the Indian Institute of Technology, Kharagpur (1962) and M.A.Sc. and Ph.D. degrees from the University of Toronto, Canada (1963, 67). He was with I.I.T. Kanpur from 1967-80 as Lecturer and Asst. Professor. In between he served as Manager/Senior Technologist - Research and Development, Pilkington Research Centre, Lathom, England (1977-1979). He then served as Professor of Metallurgical Engineering (1980-1990) and Dean of Students Affairs (1988-90) at the Indian Institute of Technology, Kharagpur. Prof. Ray served the Regional Research Laboratory, Bhubaneswar (now IMMTD) as Director from 1990-2000 (two terms). On retirement he served as an Emeritus Scientist at the Central Glass and Ceramic Research Institute, Calcutta. He holds several patents including 2 U.S. patents to his credit. His areas of interest included thermal analysis, kinetics, extractive metallurgy, energy and R&D administration. He guided about 40 Ph.D. students and 20 M.Tech. students for their thesis work. He has published about 500 papers in reviewed journals and conference proceedings and over 26 books. He also edited 15 Conference proceedings and written about 50 technical reports. He also wrote numerous other non-technical articles, editorials, etc. Prof. Ray received several awards in recognition of his work and these include the National Metallurgists Day Award, G.D. Birla Award and two Kamani Gold Medals of the Indian Institute of Metals. He received the Distinguished Alumni award from IIT Kharagpur, which, interestingly, he shared that year with the Google CEO, Sundar Pichai. He served several companies and R&D laboratories as consultant or member of Boards/Research Councils. He was associated with several Professional Bodies and served as President, Indian Institute of Mineral Engineers and Indian Thermal Analysis Society; also, as a Vice President of the Millennium Institute of Energy and Environment Management and was an Editor of a popular science magazine Everyman's Science. He also served in several other institutions in various capacities. He was deeply involved with professional bodies such as IIM (Indian Institute of Metals), MIEEM (Millennium Institute of Energy and Environmental Management), IAPQR (Indian Association for Productivity, Quality and Reliability) etc. and used to be regular and most 0sought-after speaker in their seminars/workshops. Apart from his stellar achievements in

the world of academics, Prof Ray was well known for his interests and capabilities in other spheres of life such as Music and Art. His creative abilities spanned far and wide across writing books of both scientific and nonscientific nature, proficiency in several musical instruments like Guitar, Tabla, Violin and Esraj and painting in both oil and water colour. His office workspace at his home housed an eclectic mix of all forms of Arts. His most unusual interest was in Magic. He had a keen interest in the subject and built several magic tricks himself. He also performed in public as a professional magician. Prof Ray was a great friend to all his colleagues and students. His abilities to build positivity in all his circles made him stand out as an exceptional human being. His associations with people were lifelong. He held deep respect for all his relationships and loved nurturing the young and rising. From writing science fiction books for teenagers to help inculcate interest in core science in school to mentoring startups in science and tech and to helping and problem solving institutions to break through status quo to push forward, Prof Ray had pretty much done it all. He remained a self-driven human being with natural leaderships skills combined with motivating and inspiring others to rise, right till the end. Sri Raj Kumar Choubey , was born on August 11, 1954 at Sikariya, Bhojpur, Bihar (unfortunately he passed away on February 19, 2024). He passed B.Sc. from the University of Burdwan in 1974 and Bachelor of Engineering from MREC (now MNIT) in Jaipur Rajasthan in the year 1980. He joined M/s Jaipur Metals and Electricals in 1980 and operated the first induction furnace of India. In 1982 he joined M/s Hindustan Motors and served till the year 2000. There he developed various grades of automobile grade steel and was a part of the team who fabricated the first Diesel Engine for automobiles in India. Thereafter he decided to be a start-up entrepreneur. His portfolio lately read: Owner - Metcon Power Consultant & Engineers, Kolkata, having global clients base including Tata Steel and Jindal Steel. Director - Bhagwati Power & Steel Limited, Raipur, CG. Director - RNT Medicare Private Limited, Kolkata. Partner - Premier Hygienic Services, Kolkata. He involved himself in innovation and setting up commercial plants based on self developed technology for: Manufacturing DRI (Sponge Iron) from Mill Scale, DRI through Tunnel Kiln Technology,

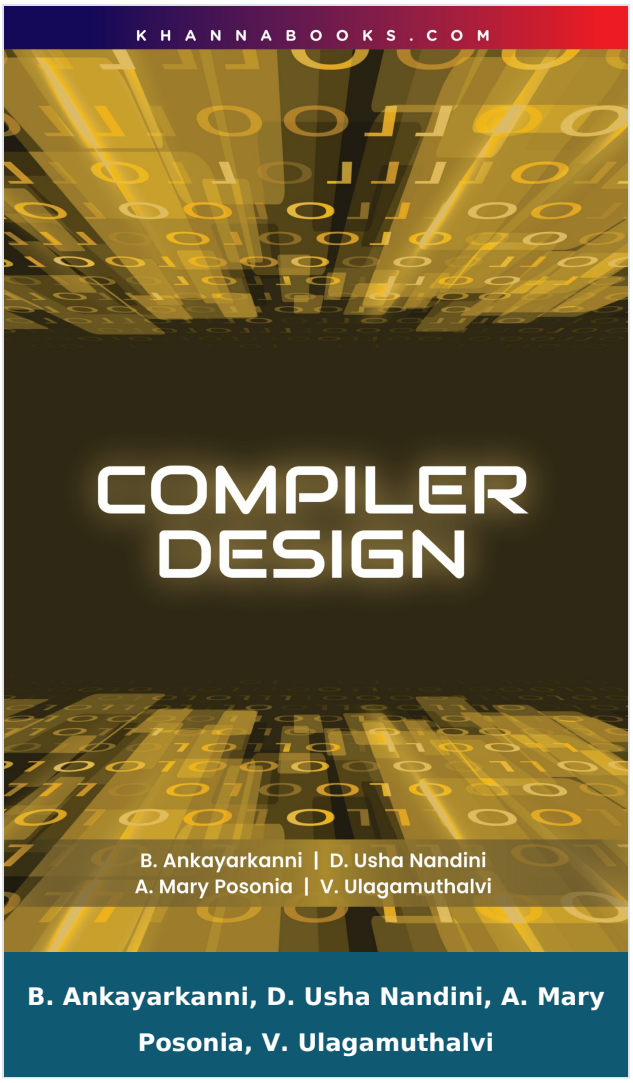
Development of Metallic Saggers for reduction of Iron Ore, Process for reduction of Chromite Ore at lower temperature, Extraction of liquid fuel from waste plastic, Recycling of Steel Plant wastes Development of Binders for agglomeration Address: Metcon House, North Bazar, Post: Andal - 713321, District: Paschim Bardhman, West Bengal. Email: choubey@metconpower.in, Website: www.metconpower.in. Dr. Asim Kumar Ray was born at Calcutta in 1952. He graduated with Honours in Chemical Engineering from Jadavpur University in 1974. He did his Masters in Chemical Engineering from IIT Kanpur and Ph. D. in Metallurgical Engineering from IIT Kharagpur. After a brief stay of about one and a half year each at Indian Iron and Steel Company, Burnpur and Indian Oil Corporation, he joined Research & Development Centre for Iron & Steel (RDCIS), SAIL, Ranchi in 1978. After a long stay at RDCIS, SAIL, Ranchi, he assumed charge of General Manager (Quality) at Durgapur Steel Plant (DSP), SAIL in 2008. Dr Ray was instrumental in commissioning Sponge Iron Pilot Plant and associated Process Research Laboratory and carried out R & D activities related to Sponge Iron & other Alternate Iron Making processes, Steelmaking and Continuous Casting. He established Computational Laboratory at RDCIS and carried out mathematical and physical simulation of different metallurgical processes. He steered several projects on process improvement and product development in all SAIL plants. Under his leadership, DSP had received several awards on Quality including prestigious Golden Peacock Award on Quality -2010 of Institution of Directors (IOD). Dr. Ray retired from SAIL in December 2012. Presently, Dr. Ray is with M/s Lechler (India) Pvt. Ltd. Dr. Ray has co-authored the Book on "Rotary Kiln Sponge Ironmaking". He has to his credit about 140 research publications and three patents. Shri Arun Kumar Agrawal , born in 1963, is a 1985 metallurgical engineering graduate from the then Institute of Technology, Banaras Hindu University (IT-BHU - now IIT-BHU), Varanasi. He joined MECON Limited, Ranchi in the year 1986 as Management Trainee (Technical) after one year stint in Hindustan Aluminium Co. (Hindalco - Aditya Birla Group) at Renukoot in Uttar Pradesh. He joined the Iron Making Division of MECON and was deeply involved in the basic engineering and design, detailed engineering, consultancy and project management as

well as site services of various Iron Making Projects particularly DR (Direct reduction) projects - both coal and gas based. In Blast Furnace area, he was the co-ordinator for NMDC Blast Furnace in Nagarnar and 1.2 mtpa Blast Furnace Complex of M/s PTKS, Indonesia. He was involved in engineering of a number of coal and gas-based DR projects, most prominent being world's first syngas-based DR plant in Angul for JSPL. He possesses over 37 years of varied and rich experiences in Iron and Steel technology, conceptualisation of projects along the entire value chain and development of process flow sheets, making and guiding the preparation of multitudes of reports, etc. Besides he has rendered expert services to Ministry of Steel (MOS) by being part of several committees, policy and norms formulation and their subsequent regulation as well as handling of diverse technical queries. In the process he immensely contributed to the development and growth of Indian Steel Industry. Shri Agrawal was deeply involved in all business verticals of MECON Limited, both technical & commercial. During his illustrious career, he displayed rare strategic insight and business acumen for enhancing company's business prospects. Shri Agrawal rose to the level of Director (Technical) of MECON in June, 2020 and continued for three years before superannuation in 2023. Under his leadership, a new Design Cell was created to develop specific tailor-made innovative designs and engineering solutions for new application and import substitutions. He was instrumental in launching of company's in-house prestigious quarterly technical journal "Techquest" to provide platform for sharing technical knowledge as well as unique design, engineering & project experiences and site based solutions among the engineers to help them learn from each other's experience and make constant improvement in their subsequent endeavours.

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B. Ankayarkanni, D. Usha Nandini, A. Mary Posonia, V. Ulagamuthalvi

Compiler Design

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Product Description

Compiler Design offers a comprehensive and organized introduction to the foundational principles, techniques, and practical tools necessary for constructing a compiler. Serving as an essential bridge between human-readable high-level programming languages and machine instructions, this book aims to unravel the complexity of the translation process and demystify compiler construction for both students and academics.

The book systematically guides readers through the entire compiler lifecycle, detailing each major phase: Lexical Analysis, Syntax Parsing, Semantic Analysis, Intermediate Code Generation, Code Optimization, and Final Code Generation. It adopts an approachable, academic tone, striving to simplify both fundamental ideas and advanced concepts by integrating theoretical foundations with practical implementations. For enhanced comprehension, the material is reinforced with a combination of theoretical discussions and numerous solved numerical problems. Furthermore, a strong emphasis is placed on practical skill development, featuring dedicated coverage of industry-standard tools like LEX and YACC, ensuring the target audience—computer science students and professors—gains hands-on experience in building real-world compilers. This indispensable resource provides a clear pathway to mastering the art and science of transforming source code into efficient, executable programs.

Salient Features:

• Systematic Phase Coverage: Presents the compiler's structure through distinct, organized units, detailing the functionality of the analysis-synthesis model from scanning to code generation.

• Practical Tool Integration: Provides detailed sections on using LEX and YACC (Yet Another Compiler Compiler), giving students hands-on experience in generating practical Lexical Analyzers and Parsers.

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• Comprehensive Parsing Methods: Explores a full range of parsing techniques, including Top-Down (LL(1)) and sophisticated Bottom-Up (LR, SLR) parsing, complete with error handling and recovery strategies.

• Intermediate Code Representation: Dedicated unit focusing on Syntax-Directed Translation (SDT), implementing three-address code, and handling complex programming constructs like procedure calls and switch-case statements.

• Advanced Optimization Techniques: Covers crucial optimization strategies like Data Flow Analysis, Loop Optimization, and the use of Directed Acyclic Graphs (DAGs) for efficient, high-speed target code generation.

• Efficient Code Generation: Discusses critical implementation issues such as managing Run-Time Storage, optimal Register Allocation and Assignment, and the final conversion of assembly code to machine code.

• Formal Language Foundation: Clearly explains the role of Formal Languages, covering Regular Expressions and both Deterministic and Non-Deterministic Finite Automata (DFA/NFA) conversions in lexical design.

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- Code Generation

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D. Usha Nandini

D. Usha Nandini

A. Mary Posonia

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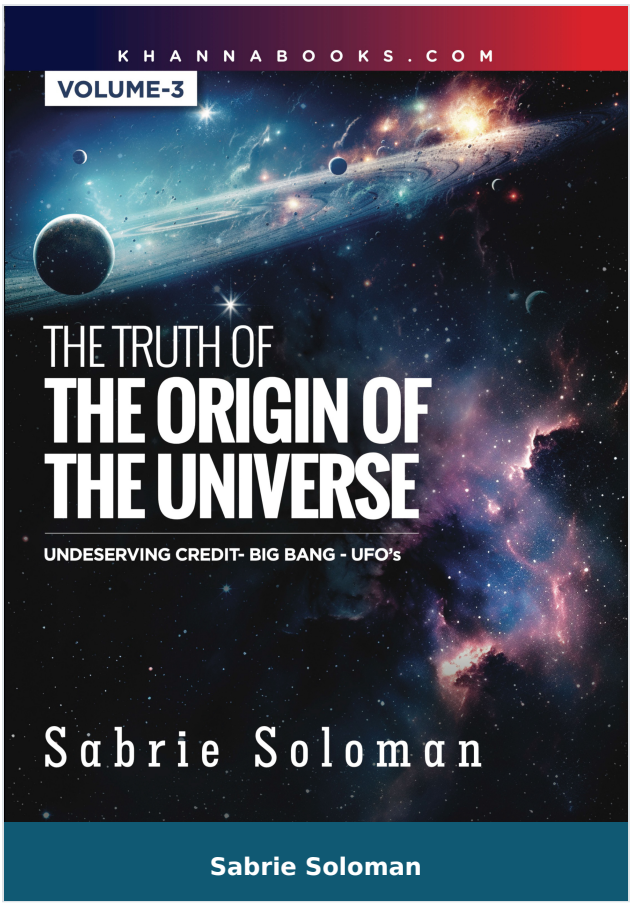
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The Truth of The Origin of The Universe (Undeserving Credit-Big Bang-UFO'S) Volume-3

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Product Description

The Big Bang and UFOs: Unworthy Credit! The topic of undeserving credit given to the Big Bang and UFOs is a controversial one, with many people having strong opinions on the matter. While both the Big Bang theory and the existence of UFOs have been widely accepted, the author argues that they are given too much credit and recognition without sufficient evidence to support their claims.

The Big Bang theory is widely accepted as the most plausible explanation for the origin of the universe. Some critics argue that it is not the only possible explanation for the universe's origins. Some alternative theories, such as the steady-state theory or the oscillating universe theory, have been proposed as alternatives to the Big Bang theory.

Similarly, the existence of UFOs is a topic that has been hotly debated for decades. While there have been countless reports of UFO sightings and encounter, there is a lack of concrete evidence to support the existence of existence of extraterrestrial visitors.

While the Big Bang theory and UFOs may be popular topics in popular culture, it is important to approach them with a critical eye and to consider the evidence before giving them undeserving credit.

Chapters Covered in This Book:

1. The hypes about Big Bang Theory.
2. Understanding Time Dilation.
3. The String Theory and the Origin of the Universe.
4. Carbon Dating.
5. Blackhole – Space – Time Warp.
6. Understanding the Unidentified Flying Objects UFOs.

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Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition),

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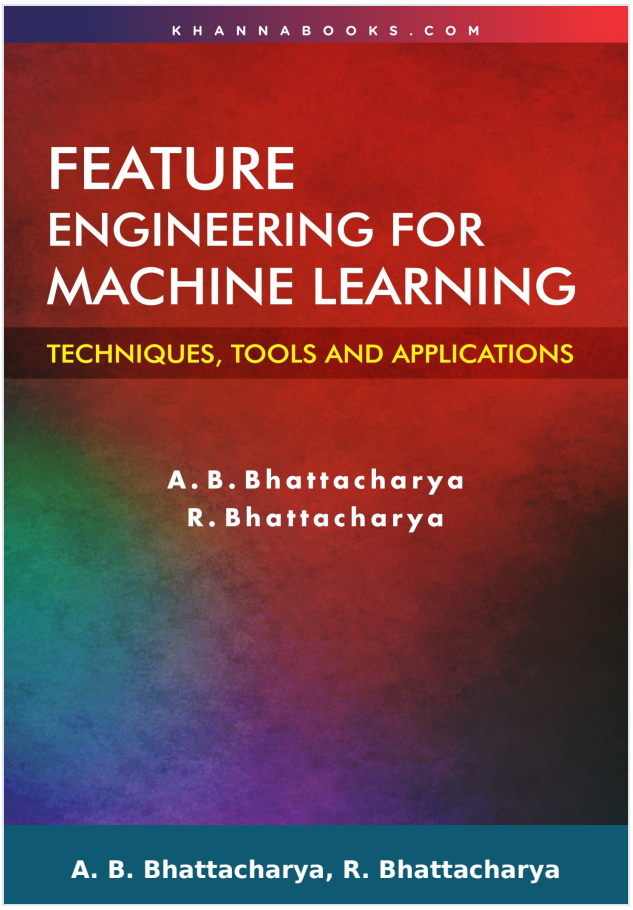
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Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA

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Feature Engineering for Machine Learning (Techniques, Tools and Applications)

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Product Description

Feature Engineering for Machine Learning (Techniques, Tools and Applications)

Feature engineering is where machine learning success is truly built.

Algorithms get the spotlight, but the real competitive edge lies in how you shape your data. Feature Engineering for Machine Learning is your practical, no-nonsense guide to transforming raw data into powerful signals that unlock model performance, reliability, and insight.

Whether you're a data scientist, ML engineer, analyst, or student, this book takes you beyond theory into the craft of creating features that matter. You'll learn how to identify meaningful patterns, design robust transformations, handle messy real-world data, and systematically improve model outcomes.

Key Features

Through clear explanations, real examples, and actionable techniques, you'll discover how to:

- Turn raw data into predictive features
- Apply domain knowledge to engineer smarter signals
- Handle categorical, temporal, and high-dimensional data
- Avoid common pitfalls that sabotage model performance
- Build scalable, reproducible feature pipelines

Feature engineering isn’t just a step in the workflow, it's the foundation of great machine learning. Master it, and you don’t just build models… you build better decisions.

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- ADVANCED TOPICS AND CASE STUDIES

Author

A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant

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contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

R. Bhattacharya

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