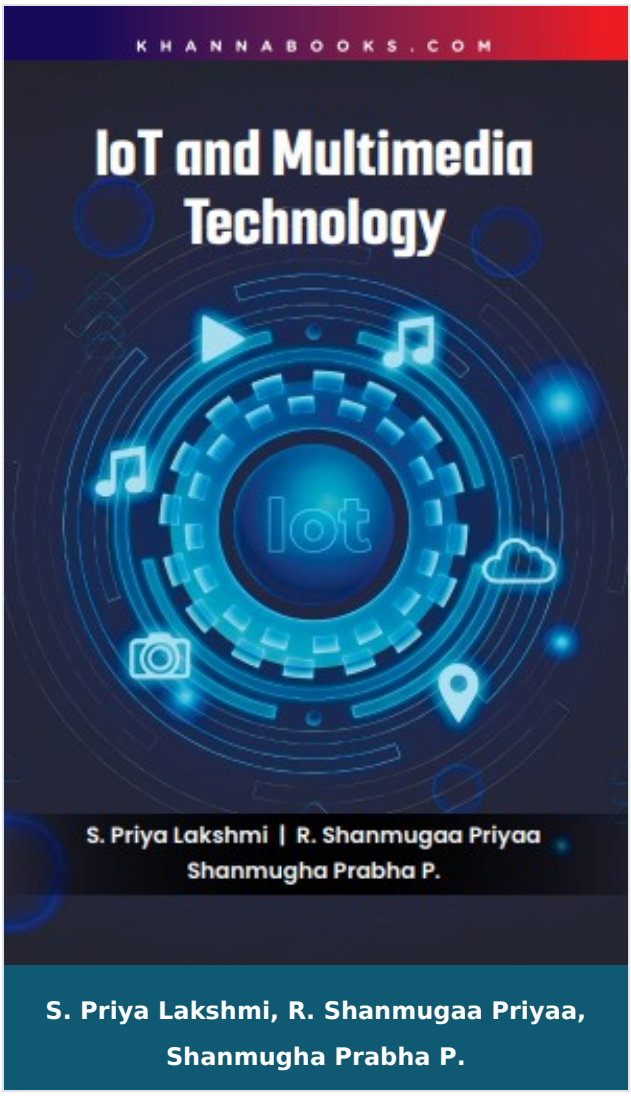


S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.

IOT and Multimedia Technology

Author :	S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.
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Product Description

IOT and Multimedia Technology

The book IOT AND MULTIMEDIA TECHNOLOGY serves as a comprehensive and essential guide to the transformative convergence of the Internet of Things (IoT) and Multimedia Big Data (MMBD) Computing. This powerful synergy is fundamentally reshaping the digital landscape, enabling intelligent data processing, real-time analytics, and innovative applications across critical sectors such as healthcare, smart cities, and industrial automation.

The primary purpose of this text is to provide a profound understanding of the interconnected evolution and far-reaching impact of these technologies by examining both fundamental principles and state-of-the-art solutions. A core theme addresses the critical challenge of effectively managing the massive volume and velocity of multimedia data while ensuring minimal energy expenditure in resource-constrained IoT devices. Readers will delve into complex technical areas, including the architectural foundations for real-time data stream monitoring, advanced transport protocols, and the deployment of guaranteed Quality of Service (QoS) models like DiffServ and IntServ. The book maintains a structured, academic approach that skillfully balances theory with practical application, featuring numerous case studies from military surveillance to precision agriculture.

This resource is an indispensable tool for a broad target audience, including students and academics seeking advanced knowledge, technology enthusiasts, and industry professionals or researchers looking to master the multidisciplinary approaches required to navigate and contribute meaningfully to this rapidly advancing field.

Salient Features:

- **Deep Learning Analytics**: Explores Deep Learning models like CNNs and RNNs, demonstrating their efficacy for Multimedia Big Data analysis, pattern recognition, and anomaly detection in vast IoT data streams.
- **Network QoS Models**: Detailed coverage of Guaranteed Service Models such as DiffServ and IntServ, alongside QoS-aware routing and queuing techniques, crucial for reliable multimedia delivery.
- **Energy-Efficient Design**: Addresses the critical challenge of Energy Conservation in multimedia IoT, presenting solutions like energy-efficient protocols, cross-layer optimization, and energy harvesting technologies for resource-constrained devices.
- **Multimedia Transport**: In-depth analysis of transport protocols (TCP and UDP) for interactive and non-interactive applications, including techniques for jitter removal and transcoding considerations in streaming.
- **Embedded Network Evolution**: Traces the development of the Embedded Internet through WSNs, M2M Communications, and the innovative architecture of Information-Centric Networking (ICN).
- **Key Protocol Standards**: Focuses on essential hardware and session control protocols that form the backbone of advanced systems, including H.322, SIP, MGCP, RTSP, and RTP/RTCP.
- **Real-World Case Studies**: Features practical applications in Precision Agriculture, Military Surveillance, Smart Cities, and Video Conferencing, highlighting the limitless frontiers of multimedia big data in IoT.

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- Multimedia Big Data in IoT Ecosystems
- Guaranteed Service Model
- Multimedia Transport
- Evolution Embedded Internet
- Application Environment

Author

S. Priya Lakshmi

R. Shanmugaa Priyaa, S. Priya Lakshmi, Shanmugha Prabha P.

R. Shanmugaa Priyaa

R. Shanmugaa Priyaa,

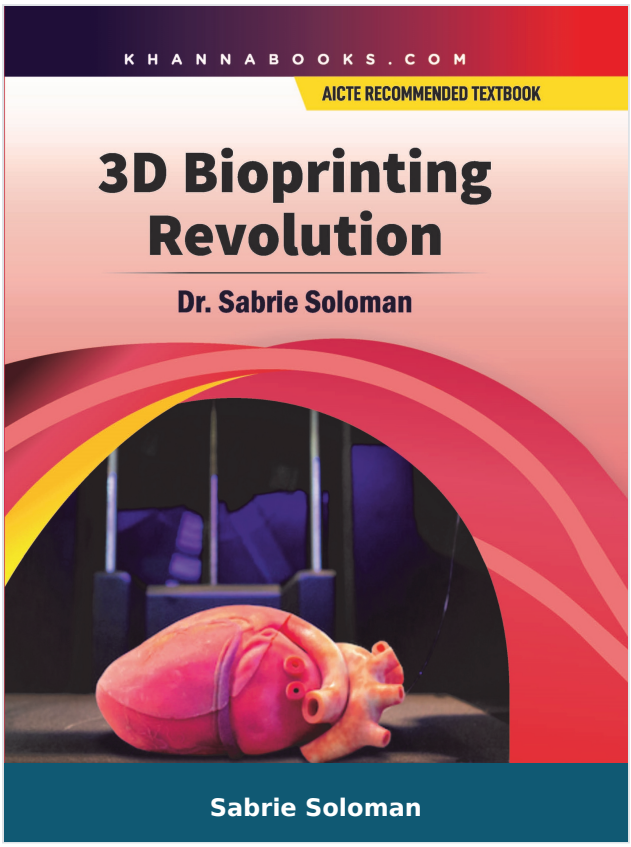
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3D Bioprinting Revolution

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Product Description

This book provides a comprehensive guide to the principles and optimal applications of 3D bioprinting technologies. It explains the operational basics, along with similarities and differences among various bioprinters. School students, university undergraduates, and postgraduate students in biomedical and life sciences will find this book highly valuable in understanding and exploring bioprinting for real-world applications. It not only builds foundational knowledge in design and implementation but also inspires learners to experiment and create their own biological models. Educators, researchers, and medical professionals will be equipped with the insights needed to advance this revolutionary technology within their institutions and industries.

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- Organ Printing
- 3D Printing Scaffolds
- 3D Bioprinting Regenerative Medicine
- Rapid Prototyping - 3D Bioprinting Orthopedics
- The Digital Revolution - 3D Bioprinting Bio-manufacturing
- Organ Printing - Discovering Novel Treatments and Drugs
- 3D Bioprinting Innovative Design

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), 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

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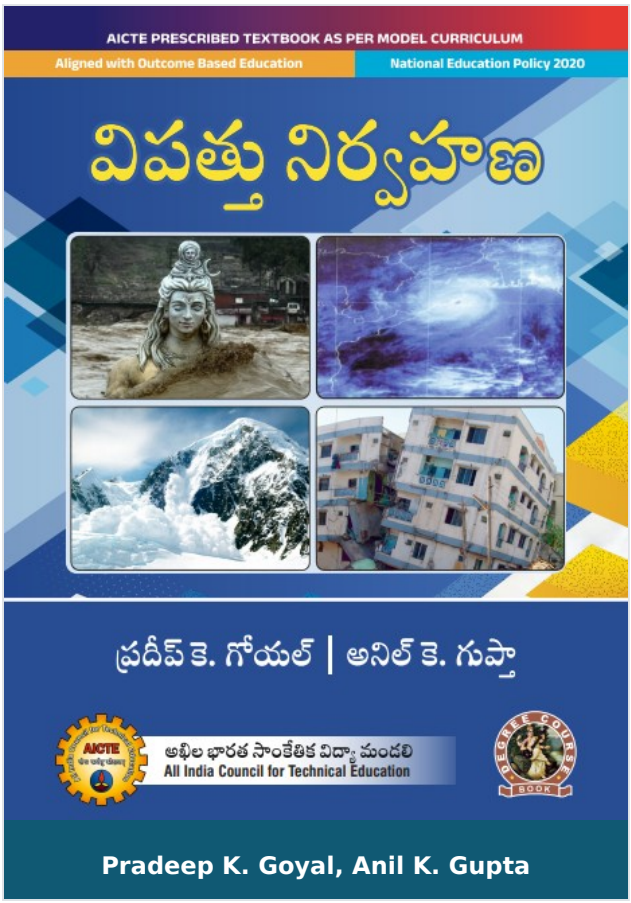
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Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (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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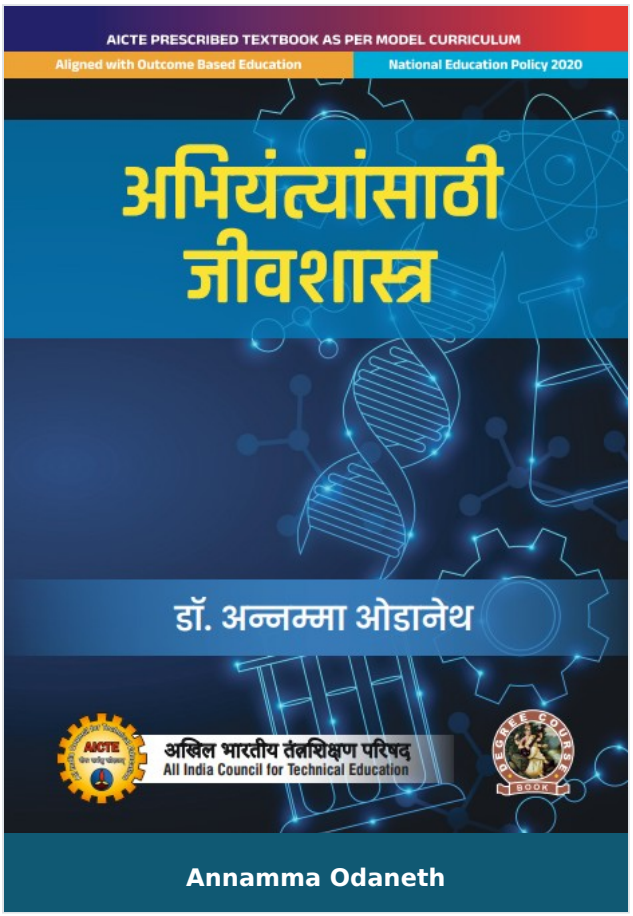
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Biology for Engineers

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Author

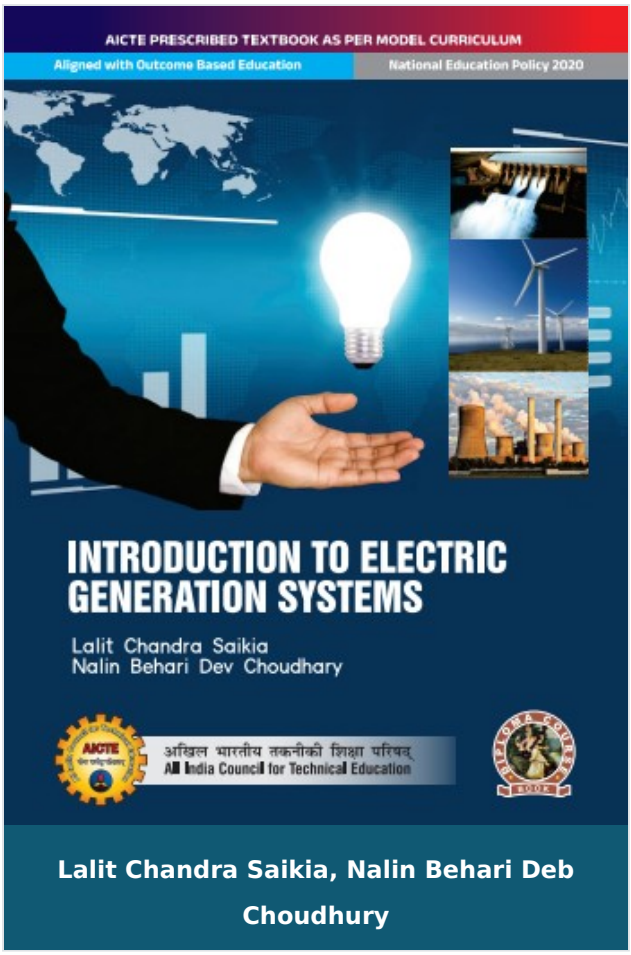
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Introduction to Electric Generation Systems

Author :	Lalit Chandra Saikia, Nalin Behari Deb Choudhury
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Product Description

Introduction to Electric Generation Systems

This book familiarizes the students with the basics of electrical power generation. This covers all the thermal, hydro, solar, wind, and biomass power plants. The interconnected power systems, power plant economics, and related terms, blackout, and brownout are also included. The basic principles, layout, working, types, and related components of all the power plants, and practical experiments are described clearly. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per the National Education Policy (NEP)2020.

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.
- 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

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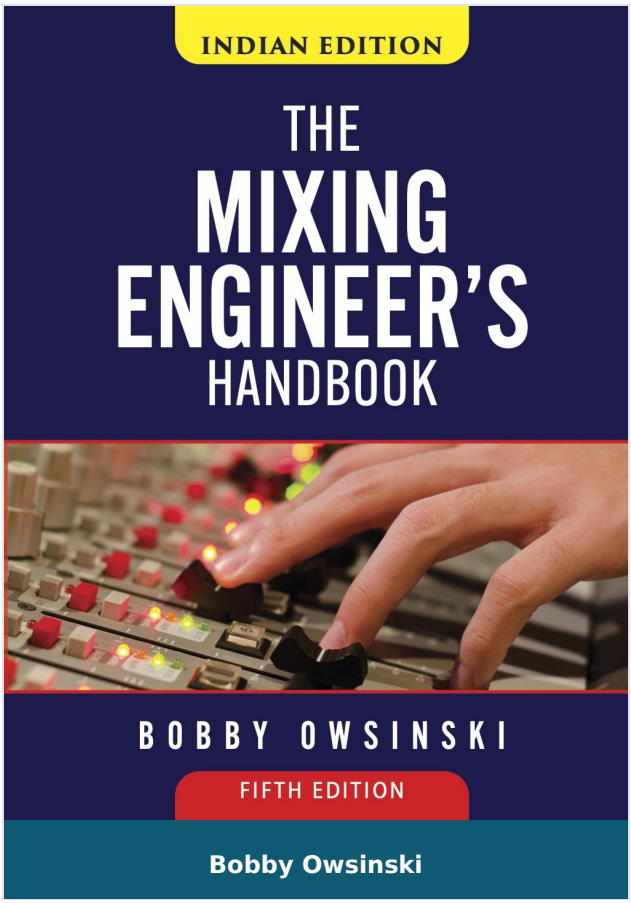
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The Mixing Engineer's Handbook (Indian Edition)

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Product Description

For more than two decades, The Mixing Engineer’s Handbook has been the best selling and most respected resource in the art of music mixing for seasoned professionals and enthusiastic beginners alike. Today’s home studio is just as powerful as any commercial

Studio, but it’s the techniques that the top mixers use that separate their work from what most musicians, songwriters or artists can produce without that knowledge. In the fully updated 5th edition of the Handbook, you’ll find all the fundamentals and advanced techniques used by the pros to create the music you love.

Guaranteed to help you get a great mix regardless of your gear, environment or the kind of music you work on, you’ll find your mixing chops better with each chapter.

Topics include

. Three new mix build techniques for better balances and faster mixes

. A new method for setting compressors to breathe with the pulse of the song for more punchy and powerful mixes

. A look at the latest intelligent processor plugins designed to make the difficult tasks of mixing easier

. Editing techniques with playlists in mind to make your mixes more streaming-ready

. A totally new chapter on immersive audio including a primer for mixing in Dolby Atmos

. Headphone mixing and room calibration technology tips and much more

The book also features new interviews with some of the most successful and celebrated audio mixers from all different music genres, as well as a bonus website with 12 additional interviews not found in the book.

Learn the art of mixing from start to finish, and pick up tips and techniques from the pros, with the Mixing Engineer’s Handbook, Fifth Edition.

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- Bob Bullock
- Joe Ciccarelli
- Richard Chycki

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- Billy Decker
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- Andrew Maury
- Robert Orton
- Greg Penny
- Dave Pensado
- Elliot Scheiner
- Andrew Scheps
- Ken Scott
- Ed Seay
- Glossary
- About Bobby Owsinski

Author

Bobby Owsinski

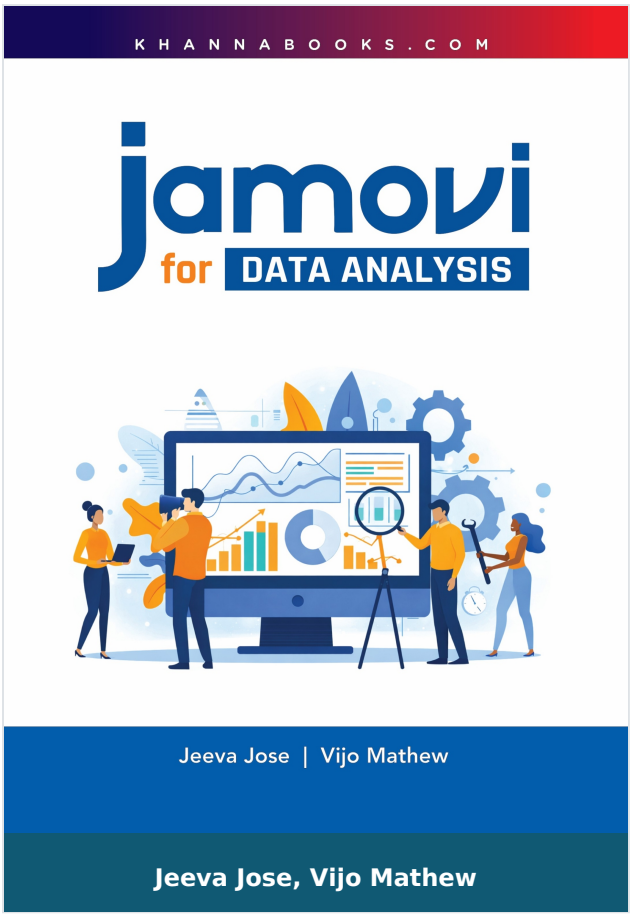
Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music 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 BobbyOlnnerCircle.com, and his website at BobbyOwsinski.com.

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Jamovi for Data Analysis

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Product Description

Jamovi for Data Analysis In today's data-driven world, the ability to analyze information accurately is an essential skill across education, research, and industry. However, many traditional statistical tools are either prohibitively expensive or too complex for beginners to master. Jamovi for Data Analysis introduces readers to a powerful, free, and open- source alternative built on the R programming language. By providing a user-friendly point-and-click interface, Jamovi allows users to focus on understanding their data rather than struggling with complex coding or intimidating software environments. This book is specifically designed to build confidence in statistical analysis, guiding readers from the initial installation and interface navigation through to sophisticated data handling and hypothesis testing. The content is presented in a clear, step-by-step manner, enriched with examples that reflect real-world scenarios. Whether you are a student beginning your journey in statistics, a teacher looking for modern pedagogical tools, or a researcher needing a reliable and transparent platform for analysis, this book serves as an indispensable companion. It bridges the gap between theoretical concepts and practical application, making data exploration, visualization, and advanced modeling accessible to all.

Salient Features

- **Comprehensive Tool Introduction**: Learn to navigate Jamovi's modular architecture, including its intuitive Data View, Variable Panel, and Analyses Panel for seamless statistical workflows.
- **Structured Learning Path**: Follow a pedagogical journey from basic data types and measures of central tendency to complex regression models and ANOVA.
- **Practical Implementation Focus**: Master data entry and cleaning by importing various formats like Excel, CSV, and SPSS, or by manually defining variables and

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types.

- **Visual Data Exploration**: Utilize built-in visualization tools to generate professional histograms, box plots, scatter plots, and bar charts that reveal underlying data patterns.
- **Parametric & Non-Parametric Testing**: Conduct a wide range of essential tests, including t-tests, Chi-square, and Wilcoxon signed-rank tests, with guidance on choosing the right method.
- **Advanced Modeling Techniques**: Explore sophisticated analytical methods such as simple and multiple linear regression, logistic regression, and structural equation modeling (SEM).
- **Real-Time Collaborative Reporting**: Benefit from Jamovi's unique "live results" system where outputs are displayed instantly and can be easily exported to PDF or Word.
- **Assessment and Reinforcement**: Each chapter includes Multiple Choice Questions and Short Answer Questions to test understanding and reinforce key statistical concepts.

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- Introduction to Jamovi
- Data Types
- Measures of Central Tendency & Dispersion
- Descriptive Statistics with Jamovi
- Correlation and Regression
- Non-Parametric Test & ANOVE
- Data Analysis Using Jamovi

Author

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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.

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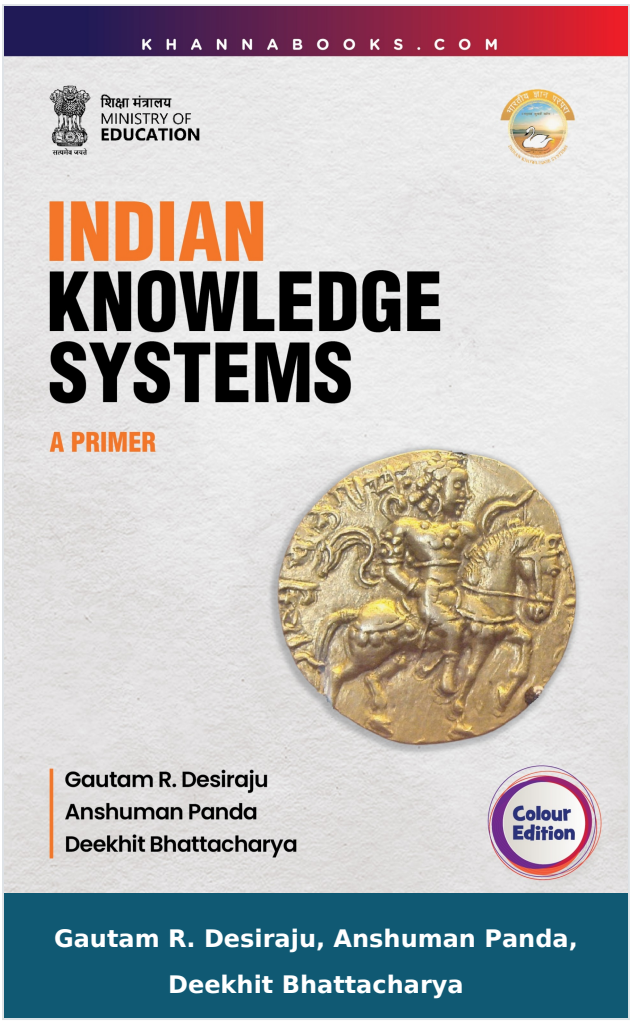
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and technology management. His expertise is highly valued in the fields of software, electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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Indian Knowledge System- A Primer (Colour Edition)

Author :	Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya
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Product Description

The subject of Indian Knowledge Systems (IKS) has seized the attention of educationists, policy makers and administrators in universities and other teaching institutions. IKS has now entered the mainstream discourse and is the topic of discussion among both students and teachers.

The purpose of this introductory text, Indian Knowledge Systems: A Primer, is to present a perspective of an educational system that propelled our ancient country into a position of unparalleled and largely unrivalled position of economic and military superiority. This book explores how this actually came about, and sadly enough the roots of its decline, because of historical events that the people of this country were able to neither predict nor control.

This book also attempts to show how we can engineer a renaissance in IKS, in a country that is only now seeking its place in a new world order where paradigms of governance, war, and economies that have held sway for over 500 years are being overthrown with bewildering speed. At such a time, we hope that this introductory text will stoke a curiosity among young students who are at the threshold between school and college, and prompt them to ask whether they have it within themselves to be a part of this intellectual renaissance. Invoking Indians from the former generations, we are going to the distant past is, we believe, a worthwhile exercise because we are a part of a continuous civilization that shows little sign of real decline even after 5000 years.

This book is typeset in two vertical columns. The text on the left-hand side is typical curriculum material and may be the subject of quizzes, tests and examinations. The material on the right-hand side is extra, supporting text, that will hopefully enhance the enjoyment of the left-hand side with its illustrations, and the audio and video links. We urge teachers not to consider the right-hand side information as material suitable for tests and examinations, as this was not the intent of introducing the right-hand side

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column.

We trust this book will be of interest to students and teachers and that our perspective on IKS will impel them to seek new avenues towards its study.

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- Bhartiya Civilizational Reawakening

Author

Gautam R. Desiraju

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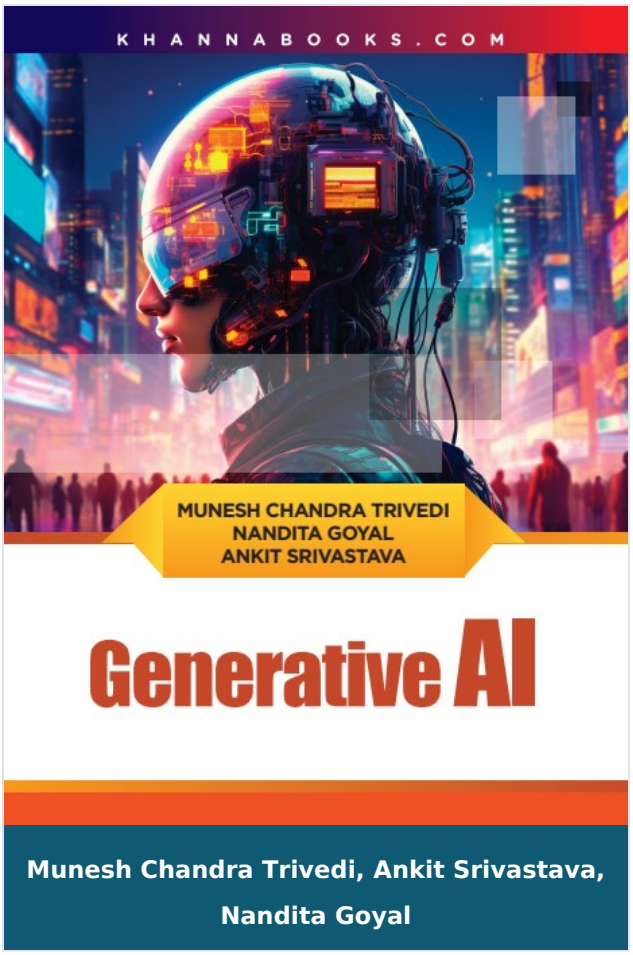
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Generative AI

Author :	Munesh Chandra Trivedi, Ankit Srivastava, Nandita Goyal
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Product Description

Generative AI: foundations, models, and Applications are a comprehensive guide that explores one of the most transformative areas of artificial intelligence—machines that create. This book offers an in-depth, yet accessible journey through the theoretical principles, algorithmic frameworks, and practical implementations that underpin generative models. Designed for students, researchers, and industry professionals alike, it bridges the gap between foundational understanding and real-world application.

The book begins with a concise introduction to machine learning and deep learning, establishing the mathematical and conceptual foundation required to understand generative models. It the systematically introduces key architectures such as variation autoencoders (VAEs), Generative adversarial Networks (GANs), autoregressive models, diffusion models, and large-scale transformer-based systems such as GPT and DALL-E.

Special attention is given to transformer architectures and multimodal generative models, which are reshaping fields such natural language processing, computer vision, digital art, and scientific discovery. Practical code examples and implementation guidance are provided using popular frameworks, empowering readers to build and experiment with their own models.

This book also examines the broader impact of generative AI--- from ethical considerations and safety challenges to the societal implications of machine- generated content. It encourages critical thinking about issues like deep fakes, misinformation, algorithmic bias, and intellectual property in the age of AI-Generated media.

Whether you are a student preparing for a career in AI, a software developer exploring new tools, or a researcher seeking a deeper understanding of generative technologies, this book serves as both a foundational text and a forward-looking reference. It combines clarity, depth, and practical relevance to help you master the art and science of

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Generative AI.

SALIENT FEATURES OF THE BOOK

- The language is simple and easily understandable.
- Includes hands-on approach for learning the subject.
- Explores a wide spectrum of generative architectures including variational autoencoders (VAEs), Generative adversarial Networks (GANs), Transformer-based models (e.g., GPT), Diffusion models, and multimodal systems.
- Provides mathematical details without losing the reader in complexity.
- Includes exercises and examples.
- Includes in-depth discussions on cutting-edge advancements such as attention mechanisms, transformer architectures, large language models (LLMs), prompt engineering, and fine-tuning techniques.
- Prepares readers not just to use today’s tools, but to adapt to tomorrow’s innovations---offering insights into emerging trends such as foundation models, generative agents, and open-ended creativity in AI.
- An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
- Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pre-trained language models.

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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

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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 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

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Nandita Goyal

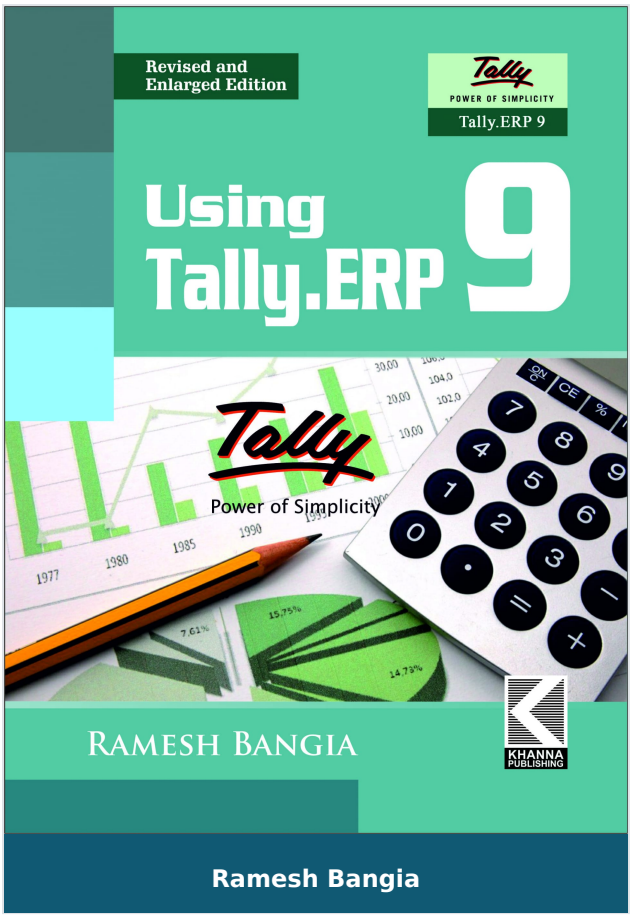
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Using Tally. ERP 9

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Product Description

Tally is an accounting software, very popular with the accountants and other computer users who need to do some accounting over the computer. It not only helps you in maintaining the accounts, but also helps you in taking care of your inventory, billing, invoicing, payroll, etc. No wonder it is the most popular one among its competitors. Various versions of the software are available in the market, with the latest being tally.ERP9. This version takes the helps of net technology to raise the level of the software to the networking level and makes it users friendly with the networking atmosphere. Though most of the other aspects of the software remain the same, quite a number of reports have been added to make the software more user friendly and result oriented.

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Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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