

## Engineering Mathematics Das Pal Vol 1 Free

Engineering Mathematics Vol-1 Solid State Electronic Devices Engineering Mathematics Engineering Mathematics-II: For WBUT Advanced Engineering Mathematics Basic Electronics Hypoxia and Anoxia Computational Advancement in Communication Circuits and Systems Introduction to Engineering Mathematics Neutrosophic Sets and Systems, Book Series, Vol. 32, 2020. An International Book Series in Information Science and Engineering Genetic Programming Advanced Engineering Mathematics Emerging Trends in Disruptive Technology Management for Sustainable Development Introduction to Digital Filters Operations Research and Optimization Modelling and Simulation in Science, Technology and Engineering Mathematics A Text Book of Engineering Mathematics A History of Heterodox Economics Engineering Mathematics - III: Engineering Mathematics, Volume-1 (For VTU, Karnataka, As Per CBCS) Introduction to Engineering Mathematics Vol-1 (GBTU) Mathematics and Computing Engineering Mathematics Vol -III ( Tamil Nadu) Advances in Optical Communication Engineering Mathematics - Volume II The Physics of Semiconductor Devices Pattern Recognition and Machine Intelligence Introduction to Engineering Mathematics Vol-III (GBTU) Problems and Solutions in Engineering Mathematics (Sem-I & II) Computational Science and Engineering Data Structures Using C Natural Polymers for Pharmaceutical Applications Engineering Mathematics : Volume II Theory of Computer Science Ocean Waves and Oscillating Systems Algorithms and Discrete Applied Mathematics Security, Privacy, and Applied Cryptography Engineering Distributed Computing and Networking Soft Computing for Problem Solving Indian National Bibliography

### Engineering Mathematics Vol-1

The existing Third Volume of our series of textbooks on Engineering Mathematics for students of B.E., B.Tech. & B.Sc.(Applied Science) has been now split into two volumes, to cater to the needs of the syllabus semester-wise. This volume caters to the syllabus of fourth semester. Many worked examples are added in each chapter and a large number of problems are included in the Exercises.

### Solid State Electronic Devices

This Third Edition, in response to the enthusiastic reception given by academia and students to the previous edition, offers a cohesive presentation of all aspects of theoretical computer science, namely automata, formal languages, computability, and complexity. Besides, it includes coverage of mathematical preliminaries. NEW TO THIS EDITION • Expanded sections on pigeonhole principle and the principle of induction (both in Chapter 2) • A rigorous proof of Kleene's theorem (Chapter 5) • Major changes in the chapter on Turing machines (TMs) – A new section on high-level description of TMs – Techniques for

the construction of TMs – Multitape TM and nondeterministic TM • A new chapter (Chapter 10) on decidability and recursively enumerable languages • A new chapter (Chapter 12) on complexity theory and NP-complete problems • A section on quantum computation in Chapter 12. • KEY FEATURES • Objective-type questions in each chapter—with answers provided at the end of the book. • Eighty-three additional solved examples—added as Supplementary Examples in each chapter. • Detailed solutions at the end of the book to chapter-end exercises. The book is designed to meet the needs of the undergraduate and postgraduate students of computer science and engineering as well as those of the students offering courses in computer applications.

## **Engineering Mathematics**

The book gives an exhaustive exposition of the fundamental concepts, techniques and devices in Basic Electronics Engineering. The book covers the basic course in basic electronics of almost all the Indian technical universities and some foreign universities as well. It is particularly well suited undergraduate students of all Engineering disciplines. Diploma students of EEE and ECE will find useful too. Basic Electronics is designed as the one-stop solution for those attempting to teach as well as study a course on Basic Electronics. The carefully developed pedagogy will help the instructor pick thought-provoking questions for tutorials and examinations, as well as allow plenty of practice for the students. Salient Features • Approach modular, and exposition of subject matter through illustrations • Block-diagrams and circuit diagrams used aplenty to enhance understanding • Pedagogy count and features: • Solved Examples- 136 • MCQs- 189 • Review Questions- 235 • Problems- 163 • Diagrams- 409

## **Engineering Mathematics-II: For WBUT**

## **Advanced Engineering Mathematics**

For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow

## **Basic Electronics**

This book constitutes the proceedings of the 5th International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2019, held in Kharagpur, India, in February 2019. The 22 papers presented together with 3 invited papers in this volume were carefully reviewed and selected from 86 submissions. The conference had papers in the areas of algorithms,

graph theory, combinatorics, computational geometry, discrete geometry, and computational complexity.

## **Hypoxia and Anoxia**

This book constitutes the proceedings of the 7th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2017, held in Kolkata, India, in December 2017. The total of 86 full papers presented in this volume were carefully reviewed and selected from 293 submissions. They were organized in topical sections named: pattern recognition and machine learning; signal and image processing; computer vision and video processing; soft and natural computing; speech and natural language processing; bioinformatics and computational biology; data mining and big data analytics; deep learning; spatial data science and engineering; and applications of pattern recognition and machine intelligence.

## **Computational Advancement in Communication Circuits and Systems**

This book is designed to help readers gain a basic understanding of semiconductor devices and the physical operating principles behind them. This two-fold approach 1) provides the user with a sound understanding of existing devices, and 2) helps them develop the basic tools with which they can later learn about applications and the latest devices. The piece provides one of the most comprehensive treatments of all the important semiconductor devices, and reflects the most current trends in the technology and theoretical understanding of the devices. FEATURES/BENEFITS \*NEW--Thoroughly updated to reflect the most current trends in the technology and theoretical understanding of devices. \*NEW--Expanded description of silicon Czochralski growth, wafer production, and vapor phase epitaxy (Ch. 1). \*NEW--Clearer discussion of chemical bonding, energy band formation and hole transport (Chs. 2, 3 and 4). \*NEW--Consolidated coverage of p-n junction diodes and its applications (Ch. 5). \*NEW--Greatly expanded/updated discussion of device fabrication processes (Ch. 5 and appendices). \*NEW--Earlier discussion of MOS devices (Ch. complementary MOS field effect transistors (MOSFETs) in integrated circuits today. \*NEW--Major revision of chapter on Field Effect Transistors (Ch. 6)--Both in the underlying theory as well as discussion of a variety of short channel, high field and hot carrier effects in scaled, ultra-small MOSFETs. Includes extensive discussions of the current-voltage and capacitance-voltage characteristics of these devices--and the information that can be gleaned from such measurements. \*NEW--Updated chapter on Bipolar Junction Transistors (BJTs) (Ch. 7)--To reflect current technology. Describes higher-order effects (including the Kirk effect and Webster effect); discusses the Gummel-Poon model (which is more elaborate and physically more accurate than the Ebers-Moll model); and updates the fabrication aspects of BJTs. \*NEW--Consolidated coverage of optoelectronic devices in a single chapter (Ch. 8)--Brings the discussion of semiconductor lasers into the same chapter as LEDs and detectors \*Reflects the growing importance of optoelectronics. \*NEW--Updated coverage of integrated circuits (Ch. concerted shift to CMOS applications, such as logic and memory integrated circuits. \*NEW--A section on the insulated gate bipolar transistor (Ch. 11)--A device that is gradually

supplanting the semiconductor-controlled rectifier. \*NEW--Real data--Wherever feasible, replaces idealized current-voltage and capacitance-voltage plots with real data.

## **Introduction to Engineering Mathematics**

This book gathers the proceedings of the International Conference on Computational Advancement in Communication Circuits and Systems (ICCACCS 2018), which was organized by Narula Institute of Technology under the patronage of the JIS group, affiliated with West Bengal University of Technology. The book presents peer-reviewed papers that highlight new theoretical and experimental findings in the fields of electronics and communication engineering, including interdisciplinary areas like Advanced Computing, Pattern Recognition and Analysis, and Signal and Image Processing. The respective papers cover a broad range of principles, techniques and applications in microwave devices, communication and networking, signal and image processing, computations and mathematics, and control. The proceedings reflect the conference's strong emphasis on methodological approaches, and focus on applications within the domain of Computational Advancement in Communication Circuits and Systems. They also address emerging technologies in electronics and communication, together with the latest practices, issues and trends.

## **Neutrosophic Sets and Systems, Book Series, Vol. 32, 2020. An International Book Series in Information Science and Engineering**

Many polymers derived from various marine sources and microorganisms possess some important biological properties such as biocompatibility, biodegradability, and bioadhesivity that make them attractive as pharmaceutical excipients in various pharmaceutical dosage forms. Moreover, these polymers can be modified physically and/or chemically to improve their biomaterial properties. In this volume, Natural Polymers for Pharmaceutical Applications, Volume 2: Marine- and Microbiologically Derived Polymers, looks at how these polymers have been explored and exploited for pharmaceutical uses, such as in tablets, microparticles, nanoparticles, ophthalmic preparations, gels, emulsions, suspensions, etc. Some commonly used marine- and microbiologically derived polymers used as pharmaceutical excipients include alginates, agar-agar, gellan gum, carrageenan; chitosan, xanthan gum, and others. The book focuses on important recent advances from experts around the world on marine-derived polysaccharides and pharmaceutical applications of alginates, agar-agar, gellan gum, carrageenan, chitosan derivatives, xanthan gum.

## **Genetic Programming**

This foundation text is aimed at the less well prepared student at pre-degree level, and provides well-paced,

mathematically sound and motivating coverage. The text concentrates on applicable maths, including simple engineering examples across all engineering disciplines, highlighting the relevance of the mathematical techniques presented. Clear explanations of the concepts behind each technique are provided.

## **Advanced Engineering Mathematics**

### **Emerging Trends in Disruptive Technology Management for Sustainable Development**

This volume contains the peer-reviewed proceedings of the International Conference on Modelling and Simulation (MS-17), held in Kolkata, India, 4th-5th November 2017, organized by the Association for the Advancement of Modelling and Simulation Techniques in Enterprises (AMSE, France) in association with the Institution of Engineering Technology (IET, UK), Kolkata Network. The contributions contained here showcase some recent advances in modelling and simulation across various aspects of science and technology. This book brings together articles describing applications of modelling and simulation techniques in fields as diverse as physics, mathematics, electrical engineering, industrial electronics, control, automation, power systems, energy and robotics. It includes a special section on mechanical, fuzzy, optical and opto-electronic control of oscillations. It provides a snapshot of the state of the art in modelling and simulation methods and their applications, and will be of interest to researchers and engineering professionals from industry, academia and research organizations.

### **Introduction to Digital Filters**

A digital filter can be pictured as a "black box" that accepts a sequence of numbers and emits a new sequence of numbers. In digital audio signal processing applications, such number sequences usually represent sounds. For example, digital filters are used to implement graphic equalizers and other digital audio effects. This book is a gentle introduction to digital filters, including mathematical theory, illustrative examples, some audio applications, and useful software starting points. The theory treatment begins at the high-school level, and covers fundamental concepts in linear systems theory and digital filter analysis. Various "small" digital filters are analyzed as examples, particularly those commonly used in audio applications. Matlab programming examples are emphasized for illustrating the use and development of digital filters in practice.

### **Operations Research and Optimization**

Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students.

## **Modelling and Simulation in Science, Technology and Engineering Mathematics**

### **A Text Book of Engineering Mathematics**

This 2002 book examines the interaction between ocean waves and oscillating systems. With a focus on linear analysis of low-amplitude waves, the text is designed to convey a thorough understanding of wave interactions. Topics covered include the background mathematics of oscillations, gravity waves on water, the dynamics of wave-body interactions, and the absorption of wave energy by oscillating bodies. Linear algebra, complex numbers, differential equations, and Fourier transformation are utilized as bases for the analysis, and each chapter ends with problems. While the book's focus is on linear theory, the practical application of energy storage and transport is interwoven throughout. This book will be appropriate for those with backgrounds in elementary fluid dynamics or hydrodynamics and mathematical analysis. Graduate students and researchers will find it an excellent source of wave energy theory and application.

### **A History of Heterodox Economics**

### **Engineering Mathematics - III:**

This second edition of Data Structures Using C has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help

readers test their knowledge.

## **Engineering Mathematics, Volume-1 (For VTU, Karnataka, As Per CBCS)**

### **Introduction to Engineering Mathematics Vol-1(GBTU)**

This book constitutes the refereed proceedings of the 9th International Conference on Security, Privacy, and Applied Cryptography Engineering, SPACE 2019, held in Gandhinagar, India, in December 2019. The 12 full papers presented were carefully reviewed and selected from 24 submissions. This annual event is devoted to various aspects of security, privacy, applied cryptography, and cryptographic engineering. This is a very challenging field, requiring the expertise from diverse domains, ranging from mathematics to solid-state circuit design.

### **Mathematics and Computing**

Engineering Mathematics Vol-1

### **Engineering Mathematics Vol -III ( Tamil Nadu)**

Economics is a contested academic discipline between neoclassical economics and a collection of alternative approaches, such as Marxism-radical economics, Institutional economics, Post Keynesian economics, and others, that can collectively be called heterodox economics. Because of the dominance of neoclassical economics, the existence of the alternative approaches is generally not known. This book is concerned with the community history of heterodox economics, seen primarily through the eyes of Marxian-radical economics and Post Keynesian economics. Throughout the 20th century neoclassical economists in conjunction with state and university power have attacked heterodox economists and tried to cleanse them from the academy. Professor Lee, his groundbreaking new title discusses issues including the contested landscape of American economics in the 1970s, the emergence and establishment of Post Keynesian economics in the US and the development of heterodox economics in Britain from 1970 to 1996.

### **Advances in Optical Communication**

Interdisciplinary approaches using Machine Learning and Deep Learning techniques are smartly addressing real life challenges and have emerged as an inseparable element of disruption in current times. Applications of Disruptive

Technology in Management practices are an ever interesting domain for researchers and professionals. This volume entitled Emerging Trends in Disruptive Technology Management for Sustainable Development has attempted to collate five different interesting research approaches that have innovatively reflected diverse potential of disruptive trends in the era of 4th. Industrial Revolution. The uniqueness of the volume is going to cater the entrepreneurs and professionals in the domain of artificial intelligence, machine learning, deep learning etc. with its unique propositions in each of the chapters. The volume is surely going to be a significant source of knowledge and inspiration to those aspiring minds endeavouring to shape their futures in the area of applied research in machine learning and computer vision. The expertise and experiences of the contributing authors to this volume is encompassing different fields of proficiencies. This has set an excellent prelude to discover the correlation among multidisciplinary approaches of innovation. Covering a broad range of topics initiating from IoT based sustainable development to crowd sourcing concepts with a blend of applied machine learning approaches has made this volume a must read to inquisitive wits. Features Assorted approaches to interdisciplinary research using disruptive trends Focus on application of disruptive technology in technology management Focus on role of disruptive technology on sustainable development Promoting green IT with disruptive technology The book is meant to benefit several categories of students and researchers. At the students' level, this book can serve as a treatise/reference book for the special papers at the masters level aimed at inspiring possibly future researchers. Newly inducted PhD aspirants would also find the contents of this book useful as far as their compulsory course-works are concerned. At the researchers' level, those interested in interdisciplinary research would also be benefited from the book. After all, the enriched interdisciplinary contents of the book would always be a subject of interest to the faculties, existing research communities and new research aspirants from diverse disciplines of the concerned departments of premier institutes across the globe. This is expected to bring different research backgrounds (due to its cross platform characteristics) close to one another to form effective research groups all over the world. Above all, availability of the book should be ensured to as much universities and research institutes as possible through whatever graceful means it may be. Hope this volume will cater as a ready reference to your quest for diving deep into the ocean of technology management for 4th. Industrial Revolution.

## **Engineering Mathematics - Volume Ii**

This book constitutes the fully refereed proceedings of the 9th International Conference on Distributed Computing and Networking, ICDCN 2008 - formerly known as IWDC (International Workshop on Distributed Computing), held in Kolkata, India, in January 2008. The 30 revised full papers and 27 revised short papers presented together with 3 keynote talks and 1 invited lecture were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections.

## **The Physics of Semiconductor Devices**

“Neutrosophic Sets and Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

## **Pattern Recognition and Machine Intelligence**

This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of B.E./B.Tech/B.Arch. The textbook is for the Group B [ME, AE, MT, TT, TE, TC, FT, CE, CH, etc. Branches] of B.Tech III Semester. The Solved Question Paper of Dec. 2012 is included in the body of the text.

## **Introduction to Engineering Mathematics Vol-III (GBTU)**

High-speed optical communication is very much useful in telecommunication systems, data processing and networking. It consists of a transmitter that encodes a message into an optical signal, a channel that carries this optical signal to its desired destination, and a receiver that reproduces the message from the received optical signal. It presents up to date results on communication systems, along with the explanations of their relevance, from leading researchers in this field. The chapters of this book cover general concepts of high-speed optical communication, optical devices used optical communication, and optical communication systems. In recent years, optical devices and other enhanced signal processing functions are also considered in depth for high-speed optical communications systems. Commonly used optical devices are light emitting diodes and photodetectors. This book is targeted at research, development and design engineers from the teams in manufacturing industry, academia and telecommunication industries.

## **Problems and Solutions in Engineering Mathematics (Sem-I & II)**

This book discusses recent developments and contemporary research in mathematics, statistics and their applications in computing. All contributing authors are eminent academicians, scientists, researchers and scholars in their respective fields, hailing from around the world. This is the second conference on mathematics and computing organized at Haldia Institute of Technology, India. The conference has emerged as a powerful forum, offering researchers a venue to discuss, interact and collaborate, and stimulating the advancement of mathematics and its applications in computer science. The book will allow aspiring researchers to update their knowledge of cryptography, algebra, frame theory, optimizations, stochastic processes, compressive sensing, functional analysis, complex variables, etc. Educating future consumers, users, producers, developers and researchers in mathematics and computing is a challenging task and essential to the development of modern society. Hence, mathematics and its applications in computing are of vital importance to a broad

range of communities, including mathematicians and computing professionals across different educational levels and disciplines. In current research, modeling and simulation, making decisions under uncertainty and pattern recognition have become very common. Professionals across different educational levels and disciplines need exposure to advances in mathematics and computing. In this context, this book presents research papers on applicable areas of current interest. It also includes papers in which experts summarize research findings, such as signal processing and analysis and low-rank-matrix approximation for solving large systems, which will emerge as powerful tools for further research. These new advances and cutting-edge research in the fields of mathematics and their applications to computing are of paramount importance for young researchers.

## **Computational Science and Engineering**

This book constitutes the refereed proceedings of the 11th European Conference on Genetic Programming, EuroGP 2008, held in Naples, Italy, in March 2008 colocated with EvoCOP 2008. The 21 revised plenary papers and 10 revised poster papers were carefully reviewed and selected from a total of 61 submissions. A great variety of topics are presented reflecting the current state of research in the field of genetic programming, including the latest work on representations, theory, operators and analysis, evolvable hardware, agents and numerous applications.

## **Data Structures Using C**

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

## **Natural Polymers for Pharmaceutical Applications**

Engineering Mathematics

## **Engineering Mathematics : Volume Ii**

This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving,

SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

## **Theory of Computer Science**

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

## **Ocean Waves and Oscillating Systems**

This work is based on the experience and notes of the authors while teaching mathematics courses to engineering students at the Indian Institute of Technology, New Delhi. It covers syllabi of two core courses in mathematics for engineering students.

## **Algorithms and Discrete Applied Mathematics**

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

## **Security, Privacy, and Applied Cryptography Engineering**

The molecular deprivation of oxygen is manifested by hypoxia, a deficiency of oxygen and anoxia, or the absence of oxygen supply to the tissues. This book entitled Hypoxia and Anoxia will cover a broad range of understanding on hypoxia and anoxia from molecular mechanisms to pathophysiology. Hypoxia and anoxia stimulate multiple systems through specific cell signal transduction pathways and regulate several transcriptional factors like HIF-1, REST to encode genes for VEGF, Epo, etc. This book will also highlight different types of hypoxia and anoxia along with their impact on apoptosis, cardiovascular pathophysiology, and glucose regulatory mechanisms. This book will be a ready reckoner to give a deep understanding of the oxygen-sensing environment in vivo for researchers, academicians, and clinicians throughout the world.

### **Distributed Computing and Networking**

This book discusses recent developments in the vast domain of optimization. Featuring papers presented at the 1st International Conference on Frontiers in Optimization: Theory and Applications (FOTA 2016), held at the Heritage Institute of Technology, Kolkata, on 24–26 December 2016, it opens new avenues of research in all topics related to optimization, such as linear and nonlinear optimization; combinatorial-, stochastic-, dynamic-, fuzzy-, and uncertain optimization; optimal control theory; as well as multi-objective, evolutionary and convex optimization and their applications in intelligent information and technology, systems science, knowledge management, information and communication, supply chain and inventory control, scheduling, networks, transportation and logistics and finance. The book is a valuable resource for researchers, scientists and engineers from both academia and industry.

### **Soft Computing for Problem Solving**

### **Indian National Bibliography**

Computational Science and Engineering contains peer-reviewed research presented at the International Conference on Computational Science and Engineering (RCC Institute of Information Technology, Kolkata, India, 4-6 October 2016). The contributions cover a wide range of topics: - electronic devices - photonics - electromagnetics - soft computing - artificial intelligence - modern communication systems Focussing on strong theoretical and methodological approaches and applications, Computational Science and Engineering will be of interest to academia and professionals involved or interested in the above mentioned domains.

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