

Engineering Mathematics 6th Edition By K A Stroud Dexter J Booth 2007 Paperback

Since its original publication in 1969, Mathematics for Engineers and Scientists has built a solid foundation in mathematics for legions of undergraduate science and engineering students. It continues to do so, but as the influence of computers has grown and syllabi have evolved, once again the time has come for a new edition. Thoroughly revised to meet the needs of today's curricula, Mathematics for Engineers and Scientists, Sixth Edition covers all of the topics typically introduced to first- or second-year engineering students, from number systems, functions, and vectors to series, differential equations, and numerical analysis. Among the most significant revisions to this edition are: Simplified presentation of many topics and expanded explanations that further ease the comprehension of incoming engineering students A new chapter on double integrals Many more exercises, applications, and worked examples A new chapter introducing the MATLAB and Maple software packages Although designed as a textbook with problem sets in each chapter and selected answers at the end of the book, Mathematics for Engineers and Scientists, Sixth Edition serves equally well as a supplemental text and for self-study. The author strongly encourages readers to make use of computer algebra software, to experiment with it, and to learn more about mathematical functions and the operations that it can perform.

The use of composite materials in engineering structures continues to increase dramatically, and there have been equally significant advances in modeling for general and

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composite materials and structures in particular. To reflect these developments, renowned author, educator, and researcher J.N. Reddy created an enhanced second edit

- 'GATE Civil Engineering Masterpiece 2019 with 10 Practice Sets - 6 in Book + 4 Online Tests - 6th edition' for GATE exam contains exhaustive theory, past year questions, practice problems and Mock Tests.
- Covers past 14 years questions.
- Exhaustive EXERCISE containing 100-150 questions in each chapter. In all contains around 5200 MCQs.
- Solutions provided for each question in detail.
- The book provides 10 Practice Sets - 6 in Book + 4 Online Tests designed exactly on the latest pattern of GATE exam.

Mathematics for Engineers and Scientists, Sixth EditionCRC Press

This book presents balanced treatment of transport phenomena and equal emphasis on mass transport, momentum transport and energy transport. It include extensive reference to applications of material covered and the addition of appendices on applied mathematics topics, the Boltzmann equation, and a summary of the basic equations in several coordinate systems. 'Transport phenomena' offers literature citations throughout so you and your students know where to find additional material. It contains - Transport properties in two-phase systems; Boundary-layer theory; Heat and mass transfer coefficients; Dimensional analysis and scaling.

Growing worldwide populations increasingly require faster, safer, and more efficient transportation systems. These needs have led to a renewed interest in high-speed guided ground transportation technology, inspired considerable research, and instigated the development of better analytical and experimental tools. A very significant body of knowledge currently exists, but has primarily remained scattered throughout the literature. *Vehicle Dynamics* consolidates

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information from a wide spectrum of sources in the area of guided ground transportation. Each chapter provides a concise, thorough statement of the fundamental theory, followed by illustrative worked examples and exercises. The author also includes a variety of unsolved problems designed to amplify and extend the theory and provide problem-solving experience. The subject of guided ground transportation is vast, but this book brings together the core topics, providing in-depth treatments of topics ranging from system classification, analysis, and response to lading dynamics and rail, air cushion, and maglev systems. In doing so, Vehicle Dynamics offers a singular opportunity for readers to build the solid background needed for solving practical vehicle dynamics problems or pursuing more advanced or specialized studies.

Now in its sixth edition, Higher Engineering Mathematics is an established textbook that has helped many thousands of students to gain exam success. John Bird's approach is ideal for students from a wide range of academic backgrounds, and can be worked through at the student's own pace.

Mathematical theories are examined in the simplest of terms, supported by practical examples and applications from a wide variety of engineering disciplines, to ensure that the reader can apply theory to practice. This extensive and thorough topic coverage makes this an ideal book for a range of university degree modules, foundation degrees, and HNC/D units. This new edition of Higher Engineering Mathematics has been further extended with topics specifically written to help first year engineering degree students and those following foundation degrees. New material has been added on logarithms and exponential functions, binary, octal and hexadecimal numbers, vectors and methods of adding alternating waveforms. This book caters specifically for the engineering mathematics units of the Higher National

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Engineering schemes from Edexcel, including the core unit Analytical methods for Engineers, and two optional units: Further Analytical Methods for Engineers and Engineering Mathematics, common to both the electrical/electronic engineering and mechanical engineering pathways. A mapping grid is included showing precisely which topics are required for the learning outcomes of each unit. Higher Engineering Mathematics contains examples, supported by 900 worked problems and 1760 further problems contained within exercises throughout the text. In addition, 19 revision tests, which are available to use as tests or as homework are included at regular intervals.

Modern And Comprehensive, The New Fifth Edition Of Zill's Advanced Engineering Mathematics, Fifth Edition Provides An In Depth Overview Of The Many Mathematical Topics Required For Students Planning A Career In Engineering Or The Sciences. A Key Strength Of This Best-Selling Text Is Zill's Emphasis On Differential Equations As Mathematical Models, Discussing The Constructs And Pitfalls Of Each. The Fifth Edition Is A Full Compendium Of Topics That Are Most Often Covered In The Engineering Mathematics Course Or Courses, And Is Extremely Flexible, To Meet The Unique Needs Of Various Course Offerings Ranging From Ordinary Differential Equations To Vector Calculus. The New Edition Offers A Reorganized Project Section To Add Clarity To Course Material And New Content Has Been Added Throughout, Including New Discussions On: Autonomous Des And Direction Fields; Translation Property, Bessel Functions, LU-Factorization, Da Vinci's Apparatus For Determining Speed And More. The Essentials Of Computer Organization And Architecture, Fourth Edition Was Recently Awarded A "Textbook Excellence Award" ("Texty") From The Text And Academic Authors Association (TAA) The Only Association Devoted Solely To Serving Textbook And Academic Authors

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Since 1987 (Www.Taaonline.Net). The "Textbook Excellence Award" Recognizes Works For Their Excellence In The Areas Of Content, Presentation, Appeal, And Teachability. This Is The Third Texty Award For Null And Lobur. They Also Won For Their Second And Third Editions Of This Text. New And Key Features Of The Fifth Edition: - Eight All-New Contributed Applied Project Problems Spread Throughout The Text, Including An In-Depth Discussion Of The Mathematics And History Of The Paris Guns Of World War I - An All-New Section On The LU-Factorization Of A Matrix - Updated Examples Throughout - Revisions And Reorganization Throughout The Text To Improve Clarity And Flow - An Expanded Discussion Of Spherical Bessel Functions - All-New Boundary-Value Problems Added To The Chapters On Partial Differential Equations - Two New Chapters, Probability And Statistics, Are Available Online - Projects, Formerly Found At The Beginning Of The Text, Are Now Included Within The Appropriate Chapters. - The Student Companion Website, Included With Every New Copy, Includes A Wealth Of Study Aids, Learning Tools, Projects, And Essays To Enhance Student Learning - Instructor Materials Include: Complete Instructor Solutions Manual, Powerpoint Image Bank, And Test Bank - Available With Webassign With Full Integrated Ebook

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.

This textbook is intended to serve as textbook for undergraduate and honors students. It will be useful to the engineering, management and students of other applied areas. It will also be helpful for competitive

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examinations like IAS, IES, NET, PCS and other higher education exams. Key Features: Provide basic concepts in an easy to understand style, Presentation of the subject in natural way, Includes large number of solved examples, Notes and remarks given at appropriate places, Clean and clear figures for better understanding, Exercise questions at the end of each chapter.

A long-standing, best-selling, comprehensive textbook covering all the mathematics required on upper level engineering mathematics undergraduate courses. Its unique programmed approach takes students through the mathematics they need in a step-by-step fashion with a wealth of examples and exercises. The text demands that students engage with it by asking them to complete steps that they should be able to manage from previous examples or knowledge they have acquired, while carefully introducing new steps. By working with the authors through the examples, students become proficient as they go. By the time they come to trying examples on their own, confidence is high. This textbook is ideal for undergraduates on upper level courses in all Engineering disciplines and Science.

Applied Engineering Analysis Tai-Ran Hsu, San Jose State University, USA A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order

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differential equations. Fourier series and Laplace transform are also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features:

- Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning.
- Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC).

Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making. Modern and comprehensive, the new sixth edition of Zill's Advanced Engineering Mathematics is a full compendium of topics that are most often covered in engineering mathematics courses, and is extremely flexible to meet the unique needs of courses ranging from ordinary differential equations to vector calculus. A

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key strength of this best-selling text is Zill's emphasis on differential equation as mathematical models, discussing the constructs and pitfalls of each.

An accessible introduction to metaheuristics and optimization, featuring powerful and modern algorithms for application across engineering and the sciences. From engineering and computer science to economics and management science, optimization is a core component for problem solving. Highlighting the latest developments that have evolved in recent years, *Engineering Optimization: An Introduction with Metaheuristic Applications* outlines popular metaheuristic algorithms and equips readers with the skills needed to apply these techniques to their own optimization problems. With insightful examples from various fields of study, the author highlights key concepts and techniques for the successful application of commonly-used metaheuristic algorithms, including simulated annealing, particle swarm optimization, harmony search, and genetic algorithms. The author introduces all major metaheuristic algorithms and their applications in optimization through a presentation that is organized into three succinct parts: *Foundations of Optimization and Algorithms* provides a brief introduction to the underlying nature of optimization and the common approaches to optimization problems, random number generation, the Monte Carlo method, and the Markov chain Monte Carlo method. *Metaheuristic Algorithms* presents common metaheuristic algorithms in detail, including genetic algorithms, simulated annealing, ant algorithms, bee algorithms, particle swarm optimization, firefly

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algorithms, and harmony search Applications outlines a wide range of applications that use metaheuristic algorithms to solve challenging optimization problems with detailed implementation while also introducing various modifications used for multi-objective optimization Throughout the book, the author presents worked-out examples and real-world applications that illustrate the modern relevance of the topic. A detailed appendix features important and popular algorithms using MATLAB® and Octave software packages, and a related FTP site houses MATLAB code and programs for easy implementation of the discussed techniques. In addition, references to the current literature enable readers to investigate individual algorithms and methods in greater detail. Engineering Optimization: An Introduction with Metaheuristic Applications is an excellent book for courses on optimization and computer simulation at the upper-undergraduate and graduate levels. It is also a valuable reference for researchers and practitioners working in the fields of mathematics, engineering, computer science, operations research, and management science who use metaheuristic algorithms to solve problems in their everyday work.

An introduction to core mathematics required for engineering study includes multiple-choice questions and answers, worked problems, formulae, and exercises.

Advanced Engineering Mathematics provides comprehensive and contemporary coverage of key mathematical ideas, techniques, and their widespread applications, for students majoring in engineering, computer science, mathematics and physics. Using a

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wide range of examples throughout the book, Jeffrey illustrates how to construct simple mathematical models, how to apply mathematical reasoning to select a particular solution from a range of possible alternatives, and how to determine which solution has physical significance. Jeffrey includes material that is not found in works of a similar nature, such as the use of the matrix exponential when solving systems of ordinary differential equations. The text provides many detailed, worked examples following the introduction of each new idea, and large problem sets provide both routine practice, and, in many cases, greater challenge and insight for students. Most chapters end with a set of computer projects that require the use of any CAS (such as Maple or Mathematica) that reinforce ideas and provide insight into more advanced problems. Comprehensive coverage of frequently used integrals, functions and fundamental mathematical results Contents selected and organized to suit the needs of students, scientists, and engineers Contains tables of Laplace and Fourier transform pairs New section on numerical approximation New section on the z-transform Easy reference system Teaches maths in a step-by-step fashion, ideal for students in first-year engineering courses. Includes hundreds of examples and exercises, mainly set in an applied engineering context -- Back cover. This book is intended to provide students with an efficient introduction and accessibility to ordinary and partial differential equations, linear algebra, vector analysis, Fourier analysis, and special functions and

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Has Been Modernized To Prepare Engineers And Scientists With The Mathematical Skills Required To Meet Current Technological Challenges. O The New Larger Trim Size And 2-Color Design Make The Text A Pleasure To Read And Learn From. O Numerous NEW Engineering And Science Projects Contributed By Top Mathematicians Have Been Added, And Are Tied To Key Mathematical Topics In The Text. O Divided Into Five Major Parts, The Text'S Flexibility Allows Instructors To Customize The Text To Fit Their Needs. The First Eight Chapters Are Ideal For A Complete Short Course In Ordinary Differential Equations. O The Gram-Schmidt Orthogonalization Process Has Been Added In Chapter 7 And Is Used In Subsequent Chapters. O All Figures Now Have Explanatory Captions. Supplements O Complete Instructor'S Solutions: Includes All Solutions To The Exercises Found In The Text. Powerpoint Lecture Slides And Additional Instructor'S Resources Are Available Online. O Student Solutions To Accompany Advanced Engineering Mathematics, Third Edition: This Student Supplement Contains The Answers To Every Third Problem In The Textbook, Allowing Students To Assess Their Progress And Review Key Ideas And Concepts Discussed Throughout The Text. ISBN: 0-7637-4095-0

Now in its ninth edition, Bird's Engineering Mathematics has helped thousands of students to

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succeed in their exams. Mathematical theories are explained in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Some 1,300 engineering situations/problems have been 'flagged-up' to help demonstrate that engineering cannot be fully understood without a good knowledge of mathematics. The extensive and thorough topic coverage makes this a great text for a range of level 2 and 3 engineering courses – such as for aeronautical, construction, electrical, electronic, mechanical, manufacturing engineering and vehicle technology – including for BTEC First, National and Diploma syllabuses, City & Guilds Technician Certificate and Diploma syllabuses, and even for GCSE and A-level revision. Its companion website at www.routledge.com/cw/bird provides resources for both students and lecturers, including full solutions for all 2,000 further questions, lists of essential formulae, multiple-choice tests, and illustrations, as well as full solutions to revision tests for course instructors.

A practical introduction to the core mathematics required for engineering study and practice. Now in its seventh edition, Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. John Bird's approach is based on worked examples and interactive problems. This makes it ideal for students

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from a wide range of academic backgrounds as the student can work through the material at their own pace. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for a range of Level 2 and 3 engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, full solutions for all 1,800 further questions contained within the practice exercises, and biographical information on the 24 famous mathematicians and engineers referenced throughout the book. The companion website for this title can be accessed from

www.routledge.com/cw/bird

Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label.

A student-friendly introduction to core engineering topics This book introduces mechanical principles and technology through examples and applications, enabling students to develop a sound understanding of both engineering principles and their use in practice. These theoretical concepts are supported by 400 fully worked problems, 700 further problems with answers, and 300 multiple-choice questions, all

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of which add up to give the reader a firm grounding on each topic. The new edition is up to date with the latest BTEC National specifications and can also be used on undergraduate courses in mechanical, civil, structural, aeronautical and marine engineering, together with naval architecture. A further chapter has been added on revisionary mathematics, since progress in engineering studies is not possible without some basic mathematics knowledge. Further worked problems have also been added throughout the text. New chapter on revisionary mathematics Student-friendly approach with numerous worked problems, multiple-choice and short-answer questions, exercises, revision tests and nearly 400 diagrams Supported with free online material for students and lecturers Readers will also be able to access the free companion website where they will find videos of practical demonstrations by Carl Ross. Full worked solutions of all 700 of the further problems will be available for both lecturers and students for the first time.

"John Bird's approach to mathematics, based on numerous worked examples and interactive problems, is ideal for vocational students who require an entry-level textbook. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the basic mathematics engineering that students need to master. The extensive and thorough topic coverage makes this

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an ideal introductory textbook for vocational engineering courses, including the BTEC National Specifications. Now in its sixth edition, Basic Engineering Mathematics has helped thousands of students to succeed in their exams. The new edition includes a section at the start of each chapter to explain why the content is important and how it relates to real life. It is also supported by a fully updated companion website with resources for both students and lecturers. The text contains over 750 worked problems and it has full solutions to all 1600 further questions contained in the 161 practice exercises. All 420 illustrations used in the text can be downloaded for use in the classroom"--

Discusses in a concise but thorough manner fundamental statement of the theory, principles and methods on vectors and vector spaces, matrix analysis, ordinary and partial differential equations, Fourier analysis and transforms, vector differential calculus, vector integral calculus, frames of reference, variational calculus, canonical transformations, and Hamilton-Jacobi theory.

This book strives to provide a concise and yet comprehensive cover-age of all major mathematical methods in engineering. Topics in-clude advanced calculus, ordinary and partial differential equations, complex variables, vector and tensor analysis, calculus of variations, integral transforms, integral equations, numerical methods, and prob-ability and statistics. Application topics consist of linear elasticity, harmonic motions, chaos, and reaction-diffusion systems. . This book can serve as a textbook in engineering

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mathematics, mathematical modelling and scientific computing. This book is organised into 19 chapters. Chapters 1-14 introduce various mathematical methods, Chapters 15-18 concern the numerical methods, and Chapter 19 introduces the probability and statistics. This text aims to provide students in engineering with a sound presentation of post-calculus mathematics. It features numerous examples, many involving engineering applications, and contains all mathematical techniques for engineering degrees. The book also contains over 5000 exercises, which range from routine practice problems to more difficult applications. In addition, theoretical discussions illuminate principles, indicate generalizations and establish limits within which a given technique may or may not be safely used. Aimed at the junior level courses in maths and engineering departments, this edition of the well known text covers many areas such as differential equations, linear algebra, complex analysis, numerical methods, probability, and more.

This book strives to provide a concise introduction to computational engineering by introducing a wide range of numerical methods commonly used, such as finite difference methods, finite volume methods, finite element methods, and virtual bee algorithms. (Computer Books) An essential core text, this volume develops theoretical foundations and explains how control systems work in real industrial situations. Several case histories assist students in visualizing applications. 1992 edition.

Introducing those areas of mathematics which are most important to practical problem-solving in engineering, this

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book pays particular attention to ordinary differential equations, linear algebra and vector analysis, complex analysis, and numerical methods. Fourier series and partial differential equations are also covered thoroughly. The problem sets in this edition have been updated and revised to give greater weight to modeling, phase-plane and numerical multi-step methods, and applications. Each section includes examples and problems illustrating concepts, methods and results, and their engineering applications.

A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students John Bird's approach, based on numerous worked examples and interactive problems, is ideal for students from a wide range of academic backgrounds, and can be worked through at the student's own pace. Basic mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for a range of university degree modules, foundation degrees, and HNC/D units. Now in its sixth edition, Higher

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Engineering Mathematics is an established textbook that has helped many thousands of students to gain exam success. It has been updated to maximise the book's suitability for first year engineering degree students and those following foundation degrees. This book also caters specifically for the engineering mathematics units of the Higher National Engineering schemes from Edexcel. As such it includes the core unit, Analytical Methods for Engineers, and two specialist units, Further Analytical Methods for Engineers and Engineering Mathematics, both of which are common to the electrical/electronic engineering and mechanical engineering pathways. For ease of reference a mapping grid is included that shows precisely which topics are required for the learning outcomes of each unit. The book is supported by a suite of free web downloads:

- Introductory-level algebra: To enable students to revise the basic algebra needed for engineering courses – available at <http://books.elsevier.com/companions/XXXXXXXXXX>
- Instructor's Manual: Featuring full worked solutions and mark schemes for all of the assignments in the book and the remedial algebra assignment – available at <http://www.textbooks.elsevier.com> (for lecturers only)
- Extensive Solutions Manual: 640 pages featuring worked solutions for 1,000 of the further problems and exercises in the book – available on <http://www.textbooks.elsevier.com> (for

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lecturers only)

This book is intended to provide students with an efficient introduction and accessibility to ordinary and partial differential equations, linear algebra, vector analysis, Fourier analysis, and special functions and eigenfunction expansions, for their use as tools of inquiry and analysis in modeling and problem solving. It should also serve as preparation for further reading where this suits individual needs and interests. Although much of this material appears in Advanced Engineering Mathematics, 6th edition, **ELEMENTS OF ADVANCED ENGINEERING MATHEMATICS** has been completely rewritten to provide a natural flow of the material in this shorter format. Many types of computations, such as construction of direction fields, or the manipulation Bessel functions and Legendre polynomials in writing eigenfunction expansions, require the use of software packages. A short MAPLE primer is included as Appendix B. This is designed to enable the student to quickly master the use of MAPLE for such computations. Other software packages can also be used.

The book is intended to serve as as a textbook for undergraduate and honors students. It will be useful to the engineering and management students, and other applied areas. It will also be helpful in preparing for competitive examinations like IAS, IES, NET, PCS, and other higher education exams. Key

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Features: Basic concepts presented in an easy to understand style, Notes and remarks given at appropriate places, clean and clear figures given for better understanding, includes a large number of solved examples, Exercise questions at the end of each chapter, Presentation of the subject in a natural way.

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