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Radiative Heat Transfer-Michael F. Modest 2013-02-20 The third edition of Radiative Heat Transfer describes the basic physics of radiation heat transfer. The book provides models, methodologies, and calculations essential in solving research problems in a variety of industries, including solar and nuclear energy, nanotechnology, biomedical, and environmental. Every chapter of Radiative Heat Transfer offers uncluttered nomenclature, numerous worked examples, and a large number of problems—many based on real world situations—making it ideal for classroom use as well as for self-study. The book's 24 chapters cover the four major areas in the field: surface properties; surface transport; properties of participating media; and transfer through participating media. Within each chapter, all analytical methods are developed in substantial detail, and a number of examples show how the developed relations may be applied to practical problems. Extensive solution manual for adopting instructors Most complete text in the field of radiative heat transfer Many worked examples and end-of-chapter problems Large number of computer codes (in Fortran and C++), ranging from basic problem solving aids to sophisticated research tools Covers experimental methods
Radiative Heat Transfer-Michael F. Modest 1993 This book is designed as a textbook for mechanical engineering seniors or beginning graduate students. The book provides a reasonable theoretical basis for a subject that has traditionally had a very strong experimental base. The core of the book is devoted to boundary layer theory with special emphasis on the laminar and turbulent thermal boundary layer. Two chapters on heat exchanger theory are included since this subject is one of the principle application areas of convective heat transfer.
Solutions Manual to Accompany Thermal Radiation Heat Transfer-Robert Siegel 1980
Radiative Heat Transfer-Michael F. Modest 2003-03-21 Every chapter of Radiative Heat Transfer offers uncluttered nomenclature, numerous worked examples, and a large number of problems - many based on "real world" situations, making it ideal for classroom use as well as for self-study. The book's 22 chapters cover the four major areas in the field: surface properties; surface transport; properties of participating media; and transfer through participating media. Within each chapter, all analytical methods are developed in substantial detail, and a number of examples show how the developed relations may be applied to practical problems. · Extensive solution manual for adopting instructors · Most complete text in the field of radiative heat transfer · Many worked examples and end-of-chapter problems · Large number of computer codes (in Fortran and C++), ranging from basic problem solving aids to sophisticated research tools · Covers experimental methods
Thermal Radiation Heat Transfer, Fourth Edition-Robert Siegel 2001-12-07 This extensively revised 4th edition provides an up-to-date, comprehensive single source of information on the important subjects in engineering radiative heat transfer. It presents the subject in a progressive manner that is excellent for classroom use or self-study, and also provides an annotated reference to literature and research in the field. The foundations and methods for treating radiative heat transfer are developed in detail, and the methods are demonstrated and clarified by solving example problems. The examples are especially helpful for self-study. The treatment of spectral band properties of gases has been made current and the methods are described in detail and illustrated with examples. The combination of radiation with conduction and/or convection has been given more emphasis nad has been merged with results for radiation alone that serve as a limiting case; this increases practicality for energy transfer in translucent solids and fluids. A comprehensive catalog of configuration factors on the CD that is included with each book provides over 290 factors in algebraic or graphical form. Homework problems with answers are given in each chapter, and a detailed and carefully worked solution manual is available for instructors.
Thermal Radiation Heat Transfer Solutions Manual-Robert Siegel 1992-09-01
Thermal Radiation Heat Transfer-Robert Siegel 1981 Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.
Thermal Radiation Heat Transfer-John R. Howell 2020-12-10 The seventh edition of this classic text outlines the fundamental physical principles of thermal radiation, as well as analytical and numerical techniques for quantifying radiative transfer between surfaces and within participating media. The textbook includes newly expanded sections on surface properties, electromagnetic theory, scattering and absorption of particles, and near-field radiative transfer, and emphasizes the broader connections to thermodynamic principles. Sections on inverse analysis and Monte Carlo methods have been enhanced and updated to reflect current research developments, along with new material on manufacturing, renewable energy, climate change, building energy efficiency, and biomedical applications. Features: Offers full treatment of radiative transfer and radiation exchange in enclosures. Covers properties of surfaces and gaseous media, and radiative transfer equation development and solutions. Includes expanded coverage of inverse methods, electromagnetic theory, Monte Carlo methods, and scattering and absorption by particles. Features expanded coverage of near-field radiative transfer theory and applications. Discusses electromagnetic wave theory and how it is applied to thermal radiation transfer. This textbook is ideal for Professors and students involved in first-year or advanced graduate courses/modules in Radiative Heat Transfer in engineering programs. In addition, professional engineers, scientists and researchers working in heat transfer, energy engineering, aerospace and nuclear technology will find this an invaluable professional resource. Over 350 surface configuration factors are available online, many with online calculation capability. Online appendices provide information on related areas such as combustion, radiation in porous media, numerical methods, and biographies of important figures in the history of the field. A Solutions Manual is available for instructors adopting the text.
Thermal Radiation Heat Transfer, 5th Edition-John R. Howell 2010-09-28 Providing a comprehensive overview of the radiative behavior and properties of materials, the fifth edition of this classic textbook describes the physics of radiative heat transfer, development of relevant analysis methods, and associated mathematical and numerical techniques. Retaining the salient features and fundamental coverage that have made it popular, Thermal Radiation Heat Transfer, Fifth Edition has been carefully streamlined to omit superfluous material, yet enhanced to update information with extensive references. Includes four new chapters on Inverse Methods, Electromagnetic Theory, Scattering and Absorption by Particles, and Near-Field Radiative Transfer Keeping pace with significant developments, this book begins by addressing the radiative properties of blackbody and opaque materials, and how they are predicted using electromagnetic theory and obtained through measurements. It discusses radiative exchange in enclosures without any radiating medium between the surfaces—and where heat conduction is included within the boundaries. The book also covers the radiative properties of gases and addresses energy exchange when gases and other materials interact with radiative energy, as occurs in furnaces. To make this challenging subject matter easily understandable for students, the authors have revised and reorganized this textbook to produce a streamlined, practical learning tool that: Applies the common nomenclature adopted by the major heat transfer journals Consolidates past material, reincorporating much of the previous text into appendices Provides an updated, expanded, and alphabetized collection of references, assembling them in one appendix Offers a helpful list of symbols With worked-out examples, chapter-end homework problems, and other useful learning features, such as concluding remarks and historical notes, this new edition continues its tradition of serving both as a comprehensive textbook for those studying and applying radiative transfer, and as a repository of vital literary references for the serious researcher.
A New Computational Algorithm for the Solution of Radiation Heat Transfer Problems-Ramesh K. Agarwal 1998
Thermal Radiation Heat Transfer, 6th Edition-John R. Howell 2015-08-07 Explore the Radiative Exchange between Surfaces Further expanding on the changes made to the fifth edition, Thermal Radiation Heat Transfer, 6th Edition continues to highlight the relevance of thermal radiative transfer and focus on concepts that develop the radiative transfer equation (RTE). The book explains the fundamentals of radiative transfer, introduces the energy and radiative transfer equations, covers a variety of approaches used to gauge radiative heat exchange between different surfaces and structures, and provides solution techniques for solving the RTE. What's New in the Sixth Edition This revised version updates information on properties of surfaces and of absorbing/emitting/scattering materials, radiative transfer among surfaces, and radiative transfer in participating media. It also enhances the chapter on near-field effects, addresses new applications that include enhanced solar cell performance and self-regulating surfaces for thermal control, and updates references. Comprised of 17 chapters, this text: Discusses the fundamental RTE and its simplified forms for different medium properties Presents an intuitive relationship between the RTE formulations and the configuration factor analyses Explores the historical development and the radiative behavior of a blackbody Defines the radiative properties of solid opaque surfaces Provides a detailed analysis and solution procedure for radiation exchange analysis Contains methods for determining the radiative flux divergence (the radiative source term in the energy equation) Thermal Radiation Heat Transfer, 6th Edition explores methods for solving the RTE to determine the local spectral intensity, radiative flux, and flux gradient. This book enables you to assess and calculate the exchange of energy between objects that determine radiative transfer at different energy levels.
Radiative Heat Exchange in the Atmosphere-K. Ya. Kondrat'Yev 2013-09-03 Radiative Heat Exchange in the Atmosphere analyzes the concerns in thermal radiation and the radiation balance of the earth's surface and of the atmosphere. The text first covers the basic definitions and concepts, and then proceeds to discussing the development of basic theories of actinometric measurements of thermal radiation fluxes. Next, the selection deals with the absorption of long-wave radiation in the atmosphere. In the fourth chapter, the title covers the solution of the problem of radiative heat transfer in the atmosphere. Chapter 5 details the examination of the approximate methods of calculation of thermal radiation fluxes, while Chapter 6 discusses the problem of the atmosphere and the net radiation at the ground. The seventh chapter tackles the radiation balance, and the last chapter covers the features of the methods and the results of calculating temperature changes caused by radiation. The book will be of great use to researchers and practitioners of astrophysics and meteorology. Ecologists and other environmental scientist will also benefit from the text.
Blunt-body Stagnation-region Flow with Nongray Radiation Heat Transfer-Walter B. Olstad 1968
Handbook Of Radiative Heat Transfer In High-Temperature Gase-R I Soloukhin 2000-07-20 Very Good,No Highlights or Markup,all pages are intact.
Discontinuous Finite Elements in Fluid Dynamics and Heat Transfer-Ben Q. Li 2006-06-29 Over the past several years, significant advances have been made in developing the discontinuous Galerkin finite element method for applications in fluid flow and heat transfer. Certain unique features of the method have made it attractive as an alternative for other popular methods such as finite volume and finite elements in thermal fluids engineering analyses. This book is written as an introductory textbook on the discontinuous finite element method for senior undergraduate and graduate students in the area of thermal science and fluid dynamics. It also can be used as a reference book for researchers and engineers who intend to use the method for research in computational fluid dynamics and heat transfer. A good portion of this book has been used in a course for computational fluid dynamics and heat transfer for senior undergraduate and first year graduate students. It also has been used by some graduate students for self-study of the basics of discontinuous finite elements. This monograph assumes that readers have a basic understanding of thermodynamics, fluid mechanics and heat transfer and some background in numerical analysis. Knowledge of continuous finite elements is not necessary but will be helpful. The book covers the application of the method for the simulation of both macroscopic and micro/nanoscale fluid flow and heat transfer phenomena.
Radiative Heat Transfer in Two-Phase Media-K. S. Adzerikho 1992-11-10 Radiative Heat Transfer in Two-Phase Media is devoted to discussing and further developing the radiative heat transfer theory. It provides thorough coverage of studies of physical processes in emitting two-phase media as applied to combustion chambers of heat power plants. Numerical methods are developed, and a number of reliable approximate solutions to radiative heat transfer problems are proposed. Widely accepted thermophysical concepts, such as effective temperature, effective emissivity of heat carriers, and thermal efficiency of screens, are covered in detail. The book also provides programs for computing spectroscopic characteristics of emitting two-phase media, which are useful for solving complex radiative heat transfer problems. Radiative Heat Transfer in Two-Phase Media is an important book for the library of any heat transfer specialist.
Radiation in Enclosures-Aristide Mbiock 2000-03-01 During the last half century, the development and testing of prediction models of combustion chamber performance have been an ongoing task at the International Flame Research Foundation (IFRF) in IJmuiden in the Netherlands and at many other research organizations. This task has brought forth a hierarchy of more or less standard numerical models for heat transfer predictions, in particular for the prediction of radiative heat transfer. Unfortunately all the methods developed, which certainly have a good physical foundation, are based on a large number of extreme sim plifications or uncontrolled assumptions. To date, the ever more stringent requirements for efficient production and use of energy and heat from com bustion chambers call for prediction algorithms of higher accuracy and more detailed radiative heat transfer calculations. The driving forces behind this are advanced technology requirements, the costs of large-scale experimen tal work, and the limitation of physical modeling. This interest is growing more acute and has increased the need for the publication of a textbook for more accurate treatment of radiative transfer in enclosures. The writing of a textbook on radiative heat transfer, however, in ad dition to working regularly on other subjects is a rather difficult task for which some years of meditation are necessary. The book must satisfy two requirements which are not easily reconciled. From the mathematical point of view, it must be written in accordance with standards of mathemati cal rigor and precision.
Radiative Heat Transfer in Turbulent Combustion Systems-Michael F. Modest 2016-01-06 This introduction reviews why combustion and radiation are important, as well as the technical challenges posed by radiation. Emphasis is on interactions among turbulence, chemistry and radiation (turbulence-chemistry-radiation interactions – TCRI) in Reynolds-averaged and large-eddy simulations. Subsequent chapters cover: chemically reacting turbulent flows; radiation properties, Reynolds transport equation (RTE) solution methods, and TCRI; radiation effects in laminar flames; TCRI in turbulent flames; and high-pressure combustion systems. This Brief presents integrated approach that includes radiation at the outset, rather than as an afterthought. It stands as the most recent developments in physical modeling, numerical algorithms, and applications collected in one monograph.
Computation of Radiative Heat Transfer in Non-gray Participating Media-Girija Parthasarathy 1996
Advances in Numerical Heat Transfer-W. Minkowycz 2000-12-05 With contributions from leading experts, this second volume in the ser ies strikes a balance between generic and specific fundamentals and ge neric and specific applications. After opening with a broad overview o f the field of high-performance scientific computing and its role in f luid flow and heat transfer problems, the book goes on to cover such t opics as: unstructured meshes; spectral element method; use of the fin ite volume method for the numerical solution of radiative heat transfe r problems; heat conduction and the use of the boundary element method for both steady and unsteady problems; special numerical issues relat ed to solving microscale heat transfer problems; the Monte Carlo Metho d; flow and heat transfer in porous media; and the thermal management of electronic systems.
Radiation Heat Transfer, Augmented Edition-E. M. Sparrow 2018-04-27 Revised to include more information on analytical models for wavelength independence, Radiation Heat Transfer, Augmented Edition has been rearranged, providing problems within each chapter rather than at the end of the book. Written by Ephraim M. Sparrow, a generalist who works on a very broad range of problems that encompasses almost all mechanical engineering topics, the book presents key ideas without being exhaustive. Sparrow oversees the Laboratory for Heat Transfer and Fluid Flow Practice, whose function in to undertake both industrially bases and fundamental problems that fall within the bounds of heat transfer and fluid flow.
Advances in Heat Transfer- 1995-11-22 This book presents the basic principles and applications of radiative heat transfer used in energy, space, and geo-environmental engineering, and can serve as a reference book for engineers and scientists in researchand development. A PC disk containing software for numerical analyses by the Monte Carlo method is included to provide hands-on practice in analyzing actual radiative heat transfer problems. Advances in Heat Transfer is designed to fill the information gap between regularly scheduled journals and university level textbooks by providing in-depth review articles over a broader scope than journals or texts usually allow. Offers solution methods for integro-differential formulation to help avoid difficulties Includes a computer disk for numerical analyses by PC Discusses energy absorption by gas and scattering effects by particles Treats non-gray radiative gases Provides example problems for direct applications in energy, space, and geo-environmental engineering
Engineering Calculations in Radiative Heat Transfer-W. A. Gray 2013-10-22 Engineering Calculations in Radiative Heat Transfer is a six-chapter book that first explains the basic principles of thermal radiation and direct radiative transfer. Total exchange of radiation within an enclosure containing an absorbing or non-absorbing medium is then described. Subsequent chapters detail the radiative heat transfer applications and measurement of radiation and temperature.
Radiation Heat Transfer-Bassem F. Armaly 1985
Finite Difference Methods in Heat Transfer-M. Necati Özişik 2017-07-20 Finite Difference Methods in Heat Transfer, Second Edition focuses on finite difference methods and their application to the solution of heat transfer problems. Such methods are based on the discretization of governing equations, initial and boundary conditions, which then replace a continuous partial differential problem by a system of algebraic equations. Finite difference methods are a versatile tool for scientists and for engineers. This updated book serves university students taking graduate-level coursework in heat transfer, as well as being an important reference for researchers and engineering. Features Provides a self-contained approach in finite difference methods for students and professionals Covers the use of finite difference methods in convective, conductive, and radiative heat transfer Presents numerical solution techniques to elliptic, parabolic, and hyperbolic problems Includes hybrid analytical–numerical approaches
Principles of Convective Heat Transfer-Massoud Kaviany 2013-11-21 This concise and unified text reviews recent contributions to the principles of convective heat transfer for single and multi-phase systems. This valuable new edition has been updated throughout and contains new examples and problems.
Heat Transfer Principles and Applications-Charles H. Forsberg 2020-03 Heat Transfer Principles and Applications is a welcome change from more encyclopedic volumes exploring heat transfer. This shorter text fully explains the fundamentals of heat transfer, including heat conduction, convection, radiation and heat exchangers. The fundamentals are then applied to a variety of engineering examples, including topics of special and current interest like solar collectors, cooling of electronic equipment, and energy conservation in buildings. The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB(R) in the solutions. Each chapter has several example problems and a large, but not overwhelming, number of end-of-chapter problems.
Heat Transfer Equipment Design-R. K. Shah 1988-07-01
Thermal Radiative Transfer and Properties-M. Quinn Brewster 1992-02-18 Not only enables readers to include radiation as part of their design and analysis but also appreciate the radiative transfer processes in both nature and engineering systems. Offers two distinguishing features--a whole chapter devoted to the classical dispersion theory which lays a foundation for the discussion of radiative properties presented throughout and a detailed description of particle radiative properties, including real particle size distribution effects. Presents numerous realistic and instructive illustrations and problems involving current topics such as planetary heat transfer, satellite thermal control, atmospheric radiation, radiation in industrial and propulsion combustion systems and more.
Use of CFD Codes for Calculation of Radiation Heat Transfer: From Validation to Application-Boštjan Končar 2018 In complex geometries, computational fluid dynamic (CFD) codes are commonly used to predict the heat and fluid transfer. To justify their use for the applications with dominant radiation heat transfer conditions, the implemented models need to be first appropriately validated on simple benchmark examples where the analytical solutions exist. The practical application discussed in this chapter considers the thermal radiation inside the vacuum vessel of the fusion reactor. Two representative benchmark examples are used to obtain the analytical solution and assess the accuracy of the real case simulations performed by CFD codes. The analytical solutions use the view factor method to calculate the net radiation heat flux on each radiating surface. Several numerical methods are available in the CFD codes to solve the thermal radiation problems. The discrete transfer method (DTM) is considered as one of the most efficient for solving the radiation fluxes between the surfaces in the case of radiatively non-participating fluid. Discussion includes description of fundamentals of analytical and numerical thermal radiation methods, validation of radiative heat exchange in simple enclosure problems, estimation of numerical errors and application to the practical case.
The Monte Carlo Ray-Trace Method in Radiation Heat Transfer and Applied Optics-J. Robert Mahan 2019-02-04 A groundbreaking guide dedicated exclusively to the MCRT method in radiation heat transfer and applied optics The Monte Carlo Ray-Trace Method in Radiation Heat Transfer and Applied Optics offers the most modern and up-to-date approach to radiation heat transfer modelling and performance evaluation of optical instruments. The Monte Carlo ray-trace (MCRT) method is based on the statistically predictable behavior of entities, called rays, which describe the paths followed by energy bundles as they are emitted, reflected, scattered, refracted, diffracted and ultimately absorbed. The author – a noted expert on the subject – covers a wide variety of topics including the mathematics and statistics of ray tracing, the physics of thermal radiation, basic principles of geometrical and physical optics, radiant heat exchange among surfaces and within participating media, and the statistical evaluation of uncertainty of results obtained using the method. The book is a guide to help formulate and solve models that accurately describe the distribution of radiant energy in thermal and optical systems of practical engineering interest. This important guide: Combines radiation heat transfer and applied optics into a single discipline Covers the MCRT method, which has emerged as the dominant tool for radiation heat transfer modelling Helps readers to formulate and solve models that describe the distribution of radiant energy Features pages of color images and a wealth of line drawings Written for faculty and graduate students in mechanical and aerospace engineering and applied optics professionals, The Monte Carlo Ray-Trace Method in Radiation Heat Transfer and Applied Optics is the first book dedicated exclusively to the MCRT method.
Radiation Heat Transfer-Ephraim M. Sparrow 1978
Heat Transfer-Konstantin Volkov 2018-06-27 The book focuses on new analytical, experimental, and computational developments in the field of research of heat and mass transfer phenomena. The generation, conversion, use, and exchange of thermal energy between physical systems are considered. Various mechanisms of heat transfer such as thermal conduction, thermal convection, thermal radiation, and transfer of energy by phase changes are presented. Theory and fundamental research in heat and mass transfer, numerical simulations and algorithms, experimental techniques, and measurements as they applied to all kinds of applied and emerging problems are covered.
Fundamentals of Radiation Heat Transfer-American Society of Mechanical Engineers. Heat Transfer Division 1991
High Performance Scientific And Engineering Computing-Michael Breuer 2012-12-06 In Douglas Adams' book 'Hitchhiker's Guide to the Galaxy', hyper-intelligent beings reached a point in their existence where they wanted to understand the purpose of their own existence and the universe. They built a supercomputer, called Deep Thought, and upon completion, they asked it for the answer to the ultimate question of life, the universe and everything else. The computer worked for several millennia on the answers to all these questions. When the day arrived for hyper-intelligent beings the to receive the answer, they were stunned, shocked and disappointed to hear that the answer was simply 42. The still open questions to scientists and engineers are typically much sim pler and consequently the answers are more reasonable. Furthermore, because human beings are too impatient and not ready to wait for such a long pe riod, high-performance computing techniques have been developed, leading to much faster answers. Based on these developments in the last two decades, scientific and engineering computing has evolved to a key technology which plays an important role in determining, or at least shaping, future research and development activities in many branches of industry. Development work has been going on all over the world resulting in numerical methods that are now available for simulations that were not foreseeable some years ago. However, these days the availability of supercomputers with Teraflop perfor mance supports extensive computations with technical relevance. A new age of engineering has started.
Thermal Radiation Heat Transfer. Volume 3 - Radiation Transfer with Absorbing, Emitting, and Scattering Media- 1971
Engineering Calculations in Radiative Heat Transfer-W. A. Gray 2013-10-22 Engineering Calculations in Radiative Heat Transfer is a six-chapter book that first explains the basic principles of thermal radiation and direct radiative transfer. Total exchange of radiation within an enclosure containing an absorbing or non-absorbing medium is then described. Subsequent chapters detail the radiative heat transfer applications and measurement of radiation and temperature.
Heat Transfer-Kubie Jorge 2012-08-06 A core task of engineers is to analyse energy related problems. The analytical treatment is usually based on principles of thermodynamics, fluid mechanics and heat transfer, but is increasingly being handled computationally. This unique resource presents a practical textbook, written for both undergraduates and professionals, with a series of over 60 computer workbooks on an accompanying CD. The book emphasizes how complex problems can be deconstructed into a series of simple steps. All thermophysical property computations are illustrated using diagrams within text and on the companion CD.
Inverse Heat Transfer-M.Necat Ozisik 2018-05-02 This book introduces the fundamental concepts of inverse heat transfer problems. It presents in detail the basic steps of four techniques of inverse heat transfer protocol, as a parameter estimation approach and as a function estimation approach. These techniques are then applied to the solution of the problems of practical engineering interest involving conduction, convection, and radiation. The text also introduces a formulation based on generalized coordinates for the solution of inverse heat conduction problems in two-dimensional regions.
Fluid Mechanics and the Environment: Dynamical Approaches-John Lumley 2001-03-27 The papers in this volume were written by his students and colleagues to honor Sidney Leibovich, Samuel B. Eckert Professor in the Sibley School of Mechanical and Aerospace Engineering at Cornell University, in commemoration of his 60th birthday, 2 April 1999. They were presented at a symposium held at Cornell, 23 and 24 August 1999. Sid obtained his Bachelor of Science degree with honors from The California Institute of Technology in 1961, graduating first in his class. He came to Cornell to work with Geoffrey Ludford on Magnetohydrodynamics, and obtained his Ph.D. in 1965 in the Department of Theoretical and Applied Mechanics. He spent a year at University College, London as a NATO Postdoctoral Fellow, and returned to Cornell as an Assistant Professor. He has been here ever since, and is currently Director of the Sibley School. Since returning to Cornell, Sid has concentrated on rotating fluids and n- linear waves, in various combinations and applications, producing some 3.2 - pers a year with an applied-mathematical bent. In particular this interest led to both Langmuir circulation and vortex breakdown, two areas in which Sid has had enormous influence, and both, of course, examples of rotating fluids interacting with waves. It was impossible to work in this area without being distracted by the study of the nonlinear dispersive and dissipative waves themselves, and Sid has made substantial contributions in this area.

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