

Engineering Fluid Mechanics Solutions Manual Ninth Edition

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Introduction to Fluid Dynamics Edward B. McLeod, Jr. 2016-06-20 Concise, unified, and logical introduction to study of the basic principles of fluid dynamics emphasizes statement of problems in mathematical language. Assumes familiarity with algebra of vector fields. 1963 edition.

A First Course in Fluid Mechanics for Civil Engineers Donald D. Gray 1999

Engineering Fluid Mechanics Donald F. Elger 2020-07-08 Engineering Fluid Mechanics guides students from theory to application, emphasizing critical thinking, problem solving, estimation, and other vital engineering skills. Clear, accessible writing puts the focus on essential concepts, while abundant illustrations, charts, diagrams, and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications. Over 1,000 chapter problems provide the “deliberate practice”—with feedback—that leads to material mastery, and discussion of real-world applications provides a frame of reference that enhances student comprehension. The study of fluid mechanics pulls from chemistry, physics, statics, and calculus to describe the behavior of liquid matter; as a strong foundation in these concepts is essential across a variety of engineering fields, this text likewise pulls from civil engineering, mechanical engineering, chemical engineering, and more to provide a broadly relevant, immediately practicable knowledge base. Written by a team of educators who are also practicing engineers, this book merges effective pedagogy with professional perspective to help today’s students become tomorrow’s skillful engineers.

Fluid Mechanics Frank M. White 2020-12

Applied Mechanics Reviews 1974

A Brief Introduction to Fluid Mechanics Donald F. Young 2010-12-21 A Brief Introduction to Fluid Mechanics, 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today’s student better than the dense, encyclopedic manner of traditional texts. This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems. The text lucidly presents basic analysis techniques and addresses practical concerns and applications, such as pipe flow, open-channel flow, flow measurement, and drag and lift. It offers a strong visual approach with photos, illustrations, and videos included in the text, examples and homework problems to emphasize the practical application of fluid mechanics principles

Spray-Freeze-Drying of Foods and Bioproducts S. Padma Ishwarya 2022-04-08 Spray-freeze-drying (SFD) is a synergistic drying technology that imbibes in it the merits of both spray drying and freeze-drying, whilst overcoming the limitations of these predecessor technologies. SFD produces uniquely powdered food and pharmaceutical products with porous microstructure and superior quality attributes. Owing to its atomization step and ultra-low-temperature operation, SFD is a competent drying technique for the production of valuable but sensitive bioactive components. Despite the costs and complexities involved, SFD has a competitive edge over the conventional drying techniques in providing distinctive product attributes. The applications of spray-freeze-drying in the area of food and bioproducts span across the product categories of instant food powders, dry flavors, active pharmaceutical ingredients, poorly water-soluble drugs, probiotics, proteins, enzymes and vaccines. *Spray-Freeze-Drying of Foods and Bioproducts: Theory, Applications and Perspectives* is the first exclusive title on this interesting drying technique. It provides a

comprehensive understanding of the fundamentals of SFD and its food and pharmaceutical applications. The scope of this book, comprising 12 chapters, has been organized under four major headings: fundamentals of process-stages, applications with case-studies, recent advancements and the processing bottlenecks and solutions. Key Features Provides examples and case studies of nuances and intricacies associated with each stage of the spray-freeze-drying process Highlights the applications of spray-freeze-drying in the production of food products including soluble coffee, dairy powders, probiotics and flavors Serves as a ready-reckoner of characterization methods for spray-freeze-dried products Contains 200+ illustrations and tabulations The contents of this book are organized to cater to the knowledge needs of students, academicians, researchers and professionals in the food and pharmaceutical industry.

Engineering Education 1979

Computational Techniques for Fluid Dynamics Karckenahalli Srinivas 2012-12-06 This complementary text provides detailed solutions for the problems that appear in Chapters 2 to 18 of Computational Techniques for Fluid Dynamics (CTFD), Second Edition. Consequently there is no Chapter 1 in this solutions manual. The solutions are indicated in enough detail for the serious reader to have little difficulty in completing any intermediate steps. Many of the problems require the reader to write a computer program to obtain the solution. Tabulated data, from computer output, are included where appropriate and coding enhancements to the programs provided in CTFD are indicated in the solutions. In some instances completely new programs have been written and the listing forms part of the solution. All of the program modifications, new programs and input/output files are available on an IBM compatible floppy direct from C.A.J. Fletcher. Many of the problems are substantial enough to be considered mini-projects and the discussion is aimed as much at encouraging the reader to explore extensions and what-if scenarios leading to further development as at providing neatly packaged solutions. Indeed, in order to give the reader a better introduction to CFD reality, not all the problems do have a "happy ending". Some suggested extensions fail; but the reasons for the failure are illuminating.

Mechanical Engineering News 1989

Books in Print Supplement 1994

Introduction to Chemical Engineering Fluid Mechanics William M. Deen 2016-08-31 Presents the fundamentals of chemical engineering fluid mechanics with an emphasis on valid and practical approximations in modeling.

Modern Fluid Dynamics Clement Kleinstreuer 2018-04-25 Modern Fluid Dynamics, Second Edition provides up-to-date coverage of intermediate and advanced fluids topics. The text emphasizes fundamentals and applications, supported by worked examples and case studies. Scale analysis, non-Newtonian fluid flow, surface coating, convection heat transfer, lubrication, fluid-particle dynamics, microfluidics, entropy generation, and fluid-structure interactions are among the topics covered. Part A presents fluids principles, and prepares readers for the applications of fluid dynamics covered in Part B, which includes computer simulations and project writing. A review of the engineering math needed for fluid dynamics is included in an appendix.

The Publishers' Trade List Annual 1980

The Finite Element Method in Heat Transfer and Fluid Dynamics, Second Edition J. N. Reddy 2000-12-20 The numerical simulation of fluid mechanics and heat transfer problems is now a standard part of engineering practice. The widespread availability of capable computing hardware has led to an increased demand for computer simulations of products and processes during their engineering design and manufacturing phases. The range of fluid mechanics and heat transfer applications of finite element analysis has become quite remarkable, with complex, realistic simulations being carried out on a routine basis. The award-winning first edition of *The Finite Element Method in Heat Transfer and Fluid Dynamics* brought this powerful methodology to those interested in applying it to the significant class of problems dealing with heat conduction, incompressible viscous flows, and convection heat transfer. The Second Edition of this bestselling text continues to provide the academic community and industry with up-to-date, authoritative information on the use of the finite element method in the study of fluid mechanics and heat transfer. Extensively revised and thoroughly updated, new and expanded material includes discussions on difficult boundary conditions, contact and bulk nodes, change of phase, weighted-integral statements and weak forms, chemically reactive systems, stabilized methods, free surface problems, and much more. *The Finite Element Method in Heat Transfer and Fluid Dynamics* offers students a pragmatic treatment that views numerical computation as a means to an end and does not dwell on theory or proof. Mastering its contents brings a firm understanding of the basic methodology, competence in using existing simulation software, and the ability to develop some

simpler, special purpose computer codes.

Engineering Fluid Dynamics Bjørn H. Hjertager 2018-04-06 This book is a printed edition of the Special Issue "Engineering Fluid Dynamics" that was published in *Energies*

GAS DYNAMICS, Seventh Edition RATHAKRISHNAN, E. 2020-07-01 This revised and updated seventh edition continues to provide the most accessible and readable approach to the study of all the vital topics and issues associated with gas dynamic processes. At every stage, the physics governing the process, its applications and limitations are discussed in detail. With a strong emphasis on the basic concepts and problem-solving skills, this text is suitable for a course on Gas Dynamics/Compressible Flows/High-speed Aerodynamics at both undergraduate and postgraduate levels in aerospace engineering, mechanical engineering, chemical engineering and applied physics. The elegant and concise style of the book along with illustrations and worked-out examples makes it eminently suitable for self-study by students and also for scientists and engineers working in the field of gas dynamics in industries and research laboratories. The computer program to calculate the coordinates of contoured nozzle, with the method of characteristics, has been given in C-language. The program listing along with a sample output is given in the Appendix. NEW TO THE EDITION • A new chapter on the 'Power of Compressible Bernoulli Equation' • Extra chapter-end examples in Chapter 5 • Additional exercise problems in Chapters 5, 6, 7, and 8 KEY FEATURES • Concise coverage of the thermodynamic concepts to serve as a revision of the background material • Introduction to measurements in compressible flows and optical flow visualization techniques • Introduction to rarefied gas dynamics and high-temperature gas dynamics • Solutions Manual for instructors containing the complete worked-out solutions to chapter-end problems • In-depth presentation of potential equations for compressible flows, similarity rule and two-dimensional compressible flows • Logical and systematic treatment of fundamental aspects of gas dynamics, waves in the supersonic regime and gas dynamic processes TARGET AUDIENCE • BE/B.Tech (Mechanical Engineering, Aeronautical Engineering) • ME/M.Tech (Thermal Engineering, Aeronautical Engineering)

Chemical Engineering Fluid Mechanics Ron Darby 2016-11-30 This book provides readers with the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries, in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

Mechanics of Fluids John Ward-Smith 2018-10-24 As in previous editions, this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner. This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering. Focusing on the engineering applications of fluid flow, rather than mathematical techniques, students are gradually introduced to the subject, with the text moving from the simple to the complex, and from the familiar to the unfamiliar. In an all-new chapter, the ninth edition closely examines the modern context of fluid mechanics, where climate change, new forms of energy generation, and fresh water conservation are pressing issues. SI units are used throughout and there are many worked examples. Though the book is essentially self-contained, where appropriate, references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study. For lecturers, an accompanying solutions manual is available.

Uncertainty Quantification in Computational Fluid Dynamics and Aircraft Engines Francesco Montomoli 2018-06-21 This book introduces design techniques developed to increase the safety of aircraft engines, and demonstrates how the application of stochastic methods can overcome problems in the accurate prediction of engine lift caused by manufacturing error. This in turn addresses the issue of achieving required safety margins when hampered by limits in current design and manufacturing methods. The authors show that avoiding the potential catastrophe generated by the failure of an aircraft engine relies on the prediction of the correct behaviour of microscopic imperfections. This book shows how to quantify the possibility of such failure, and that it is possible to design components that are inherently less risky and more reliable. This new, updated and significantly expanded edition gives an introduction to engine reliability and safety to contextualise this important issue, evaluates newly-proposed methods for uncertainty quantification as applied to jet engines. *Uncertainty Quantification in Computational Fluid Dynamics and Aircraft Engines* will be of use to gas turbine manufacturers and designers as well as CFD practitioners, specialists and researchers. Graduate and final year undergraduate students in aerospace or mathematical engineering may also find it of interest.

The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition J. N. Reddy 2010-04-06 As Computational Fluid Dynamics (CFD) and Computational Heat Transfer (CHT) evolve and become increasingly important in standard engineering design and analysis practice, users require a solid understanding of mechanics and numerical methods to make optimal use of available software. The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition illustrates what a user must know to ensure the optimal application of computational procedures—particularly the Finite Element Method (FEM)—to important problems associated with heat conduction, incompressible viscous flows, and convection heat transfer. This book follows the tradition of the bestselling previous editions, noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating CFD and CHT. The authors update research developments while retaining the previous editions' key material and popular style in regard to text organization, equation numbering, references, and symbols. This updated third edition features new or extended coverage of: Coupled problems and parallel processing Mathematical preliminaries and low-speed compressible flows Mode superposition methods and a more detailed account of radiation solution methods Variational multi-scale methods (VMM) and least-squares finite element models (LSFEM) Application of the finite element method to non-isothermal flows Formulation of low-speed, compressible flows With its presentation of realistic, applied examples of FEM in thermal and fluid design analysis, this proven masterwork is an invaluable tool for mastering basic methodology, competently using existing simulation software, and developing simpler special-purpose computer codes. It remains one of the very best resources for understanding numerical methods used in the study of fluid mechanics and heat transfer phenomena.

Spectral/hp Element Methods for Computational Fluid Dynamics George Karniadakis 2013-01-10
Revision of: Spectral/hp element methods for CFD. 1999.

Fluid Mechanics Egon Krause 2005-01-19 Despite dramatic advances in numerical and experimental methods of fluid mechanics, the fundamentals are still the starting point for solving flow problems. This textbook introduces the major branches of fluid mechanics of incompressible and compressible media, the basic laws governing their flow, and gasdynamics. "Fluid Mechanics" demonstrates how flows can be classified and how specific engineering problems can be identified, formulated and solved, using the methods of applied mathematics. The material is elaborated in special applications sections by more than 200 exercises and separately listed solutions. The final section comprises the Aerodynamics Laboratory, an introduction to experimental methods treating eleven flow experiments. This class-tested textbook offers a unique combination of introduction to the major fundamentals, many exercises, and a detailed description of experiments.

FLUID MECHANICS RATHAKRISHNAN RATHAKRISHNAN 2012-05-18 The third edition of this easy-to-understand text continues to provide students with a sound understanding of the fundamental concepts of various physical phenomena of science of fluid mechanics. It adds a new chapter (Vortex Theory) which presents a vivid interpretation of vortex motions that are of fundamental importance in aerodynamics and in the performance of many other engineering devices. It elaborately explains the dynamics of vortex motion with the help of Helmholtz's theorems and provides illustrations of how the manifestations of Helmholtz's theorems can be observed in daily life. Several new problems along with answers are added at the end of Chapter 4 on Boundary Layer. The book is suitable for a one-semester course in fluid mechanics for undergraduate students of mechanical, aerospace, civil and chemical engineering students. A Solutions Manual containing solutions to end-of-chapter problems is available for use by instructors.

Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

[Fluid Mechanics and Thermodynamics of Turbomachinery](#) Sydney Lawrence Dixon 1998 In the intervening 20 years since the 3rd edition of this textbook many advances have been made in the design of turbines and greater understanding of the processes involved have been gained. This 4th edition brings the book up to date.

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office 1977

Fundamental Principles of Heat Transfer Stephen Whitaker 2013-10-22 Fundamental Principles of Heat Transfer introduces the fundamental concepts of heat transfer: conduction, convection, and radiation. It

presents theoretical developments and example and design problems and illustrates the practical applications of fundamental principles. The chapters in this book cover various topics such as one-dimensional and transient heat conduction, energy and turbulent transport, forced convection, thermal radiation, and radiant energy exchange. There are example problems and solutions at the end of every chapter dealing with design problems. This book is a valuable introductory course in heat transfer for engineering students.

TERMODINAMIKA Lulut Alfaris, S.T., M.T 2022-07-30 1. KONSEP DASAR SISTEM TERMODINAMIKA Lulut Alfaris, S.T., M.T. 2. KALOR USAHA DAN HUKUM PERTAMA TERMODINAMIKA Fathan Mubina Dewadi. ST.,MT. 3. SIFAT-SIFAT TERMODINAMIS ZAT MURNI Ir. Maryadi, ST., MT., IPM., ACPE., ASEAN Eng. 4. Termodinamika Proses Aliran Tunak Eko Kurniawan, S.T. M.Sc. 5. HUKUM KEDUA TERMODINAMIKA Mohamad Miftakul Ulum 6. Aplikasi Termodinamika Dewi Fairuz Zulaikha 7. SIFAT-SIFAT UAP Ir. Indriyani, A.P., S.T., M.Si. 8. Proses Reversible dan Irreversible Rofiqoh Hasan Harahap 9. Siklus-siklus Mesin Kalor Tria Puspa Sari, ST.,MT 10. PERPINDAHAN KALOR Ir. Ahmad Yani, S.T., M.T., IPP. 11. ENTROPI UAP DAN GAS Ari Beni Santoso, S.T., T.T. 12. Potensial Termodinamik I Putu Tedy Indrayana, M.Sc. Editor: Rifaldo Pido, ST., MT

Fluid Mechanics Joseph H. Spurk 1997-07-07 This collection of over 200 detailed worked exercises adds to and complements the textbook "Fluid Mechanics" by the same author, and, at the same time, illustrates the teaching material via examples. The exercises revolve around applying the fundamental concepts of "Fluid Mechanics" to obtain solutions to diverse concrete problems, and, in so doing, the students' skill in the mathematical modelling of practical problems is developed. In addition, 30 challenging questions WITHOUT detailed solutions have been included. While lecturers will find these questions suitable for examinations and tests, students themselves can use them to check their understanding of the subject.

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Fundamentals of Fluid Mechanics Bruce R. Munson 2005-03-11 Master fluid mechanics with the #1 text in the field! Effective pedagogy, everyday examples, an outstanding collection of practical problems--these are just a few reasons why Munson, Young, and Okiishi's *Fundamentals of Fluid Mechanics* is the best-selling fluid mechanics text on the market. In each new edition, the authors have refined their primary goal of helping you develop the skills and confidence you need to master the art of solving fluid mechanics problems. This new Fifth Edition includes many new problems, revised and updated examples, new Fluids in the News case study examples, new introductory material about computational fluid dynamics (CFD), and the availability of FlowLab for solving simple CFD problems. Access special resources online New copies of this text include access to resources on the book's website, including: * 80 short Fluids Mechanics Phenomena videos, which illustrate various aspects of real-world fluid mechanics. * Review Problems for additional practice, with answers so you can check your work. * 30 extended laboratory problems that involve actual experimental data for simple experiments. The data for these problems is provided in Excel format. * Computational Fluid Dynamics problems to be solved with FlowLab software. Student Solution Manual and Study Guide A Student Solution Manual and Study Guide is available for purchase, including essential points of the text, "Cautions" to alert you to common mistakes, 109 additional example problems with solutions, and complete solutions for the Review Problems.

Solutions Manual and Transparency Masters John A. Roberson 1993

Mechanics of Fluids, SI Edition Merle C. Potter 2016-01-01 Readers gain both an understanding of fluid mechanics and the ability to analyze this important phenomena encountered by practicing engineers with *MECHANICS OF FLUIDS*, 5E. The authors use proven learning tools to help students visualize many difficult-to-understand aspects of fluid mechanics. The book presents numerous phenomena that are often not discussed in other books, such as entrance flows, the difference between wakes and separated regions, free-stream fluctuations and turbulence, and vorticity. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modern Fluid Dynamics Clement Kleinstreuer 2010-05-21 This textbook covers essentials of traditional and modern fluid dynamics, i. e. , the fundamentals of and basic applications in fluid mechanics and convection heat transfer with brief excursions into fluid-particle dynamics and solid mechanics. Specifically, it is suggested that the book can be used to enhance the knowledge base and skill level of engineering and physics students in macro-scale fluid mechanics (see Chaps. 1-5 and 10), followed by an introductory excursion into micro-scale fluid dynamics (see Chaps. 6 to 9). These ten chapters are rather self-contained, i. e. , most of the material of Chaps. 1-10 (or selectively just certain chapters) could be taught in one course, based on the students' background. Typically, serious seniors and first-year graduate students form a receptive audience (see sample syllabus). Such as target group of students would have had prerequisites in

thermodynamics, fluid mechanics and solid mechanics, where Part A would be a welcomed refresher. While introductory fluid mechanics books present the material in progressive order, i. e. , employing an inductive approach from the simple to the more difficult, the present text adopts more of a deductive approach. Indeed, understanding the derivation of the basic equations and then formulating the system-specific equations with suitable boundary conditions are two key steps for proper problem solutions.

Engineering Fluid Mechanics (Single Color Edition) K L Kumar 1984 In its 39th year of Publishing, Engineering Fluid Mechanics continues to evolve with the times. Pedagogically sound, the book delves into important concepts such as Fluid Statics, Kinematics and Dynamics. From concepts which as are early as Bernoulli equation (17th century) till today, the book encompasses the chief concepts of the subject with solved examples

Mechanics of Fluids, Ninth Edition John Ward-Smith 2011-08-19 As in previous editions, this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner. This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering. Focusing on the engineering applications of fluid flow, rather than mathematical techniques, students are gradually introduced to the subject, with the text moving from the simple to the complex, and from the familiar to the unfamiliar. In an all-new chapter, the ninth edition closely examines the modern context of fluid mechanics, where climate change, new forms of energy generation, and fresh water conservation are pressing issues. SI units are used throughout and there are many worked examples. Though the book is essentially self-contained, where appropriate, references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study. For lecturers, an accompanying solutions manual is available.

Eit Industrial Review Donovan Young 2003-09-18 This guide is written for the afternoon FE/EIT Industrial Exam and reviews each topic with numerous example problems and complete step-by-step solutions. End-of-chapter problems with solutions and a complete sample exam with solutions are provided. Topics covered: Production Planning and Scheduling; Engineering Economics; Engineering Statistics; Statistical Quality Control; Manufacturing Processes; Mathematical Optimization and Modeling; Simulation; Facility Design and Location; Work Performance and Methods; Manufacturing Systems Design; Industrial Ergonomics; Industrial Cost Analysis; Material Handling System Design; Total Quality Management; Computer Computations and Modeling; Queuing Theory and Modeling; Design of Industrial Experiments; Industrial Management; Information System Design; Productivity Measurement and Management. 101 problems with complete solutions; SI Units.

Aerodynamics for Engineering Students E. L. Houghton 2016-08-12 *Aerodynamics for Engineering Students*, Seventh Edition, is one of the world's leading course texts on aerodynamics. It provides concise explanations of basic concepts, combined with an excellent introduction to aerodynamic theory. This updated edition has been revised with improved pedagogy and reorganized content to facilitate student learning, and includes new or expanded coverage in several important areas, such as hypersonic flow, UAV's, and computational fluid dynamics. Provides contemporary applications and examples that help students see the link between everyday physical examples of aerodynamics and the application of aerodynamic principles to aerodynamic design Contains MATLAB-based computational exercises throughout, giving students practice in using industry-standard computational tools Includes examples in SI and Imperial units, reflecting the fact that the aerospace industry uses both systems of units Improved pedagogy, including more examples and end-of-chapter problems, and additional and updated MATLAB codes

Mechanics of Fluids, Ninth Edition John Ward-Smith 2012-05-23 As in previous editions, this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner. This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering. Focusing on the engineering applications of fluid flow, rather than mathematical techniques, students are gradually introduced to the subject, with the text moving from the simple to the complex, and from the familiar to the unfamiliar. In an all-new chapter, the ninth edition closely examines the modern context of fluid mechanics, where climate change, new forms of energy generation, and fresh water conservation are pressing issues. SI units are used throughout and there are many worked examples. Though the book is essentially self-contained, where appropriate, references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study. For lecturers, an accompanying solutions manual is available.

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