# Bear And Johnson Engineering Mechanics

Engineering MechanicsEngineering Mechanics, Third EditionEngineering Applications of DynamicsA - LA - NEngineering Mechanics Devoted to Mechanical Civil, Mining and Electrical EngineeringO - Z und RegisterOcean Engineering MechanicsSOLIDWORKS 2019 Quick StartSOLIDWORKS 2020 Quick StartSOLIDWORKS 2016 in 5 Hours with Video InstructionSOLIDWORKS 2021 Quick StartSOLIDWORKS 2022 Quick StartAdvances in Engineering Materials, Structures and Systems: Innovations, Mechanics and ApplicationsCommands Guide Tutorial for SolidWorks 2011Computational Stochastic MechanicsM - ZAssembly Modeling with SolidWorks 2012CommencementRegister of the University of CaliforniaSolidWorks 2016 Reference GuideOfficial Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2015 - 2017)Review of the 21st Century Truck PartnershipAIA Design for Aging Review 2000Annual Register of the United States Naval AcademyJohnson's Universal CyclopaediaCommands Guide Tutorial for SolidWorks 2012Mechanics of Composite Materials and StructuresAnnual Register of the United States Naval Academy, Annapolis, MdSOLIDWORKS 2019 Reference GuideApplied Biomedical Engineering MechanicsSOLIDWORKS 2018 Reference GuideSafety, Reliability, Risk and Life-Cycle Performance of Structures and InfrastructuresWings in OrbitEffectiveness and Impact of Corporate Average Fuel Economy (CAFE) StandardsRecent Advances in Multidisciplinary Analysis and OptimizationInsights and Innovations in Structural Engineering, Mechanics and ComputationSOLIDWORKS 2015 in 5 Hours with Video InstructionSolidWorks 2015 Reference GuideRail Quality and Maintenance for Modern Railway Operation G. Ramamurty Dean C. Karnopp Werner Schuder Werner Schuder Werner Schuder Michael E. McCormick David Planchard David Planchard David Planchard David Planchard David Planchard Alphose Zingoni David C. Planchard P.D. Spanos Werner Schuder David C. Planchard University of California, Berkeley University of California (1868-1952) David Planchard David Planchard National Research Council United States Naval Academy David C. Planchard Madhujit Mukhopadhyay United States Naval Academy David Planchard Dhanjoo Ghista David Planchard George Deodatis Wayne Hale National Research Council Alphose Zingoni David Planchard David Planchard J.J. Kalker

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2021 Quick Start SOLIDWORKS 2022 Quick Start Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Commands Guide Tutorial for SolidWorks 2011 Computational Stochastic Mechanics M - Z Assembly Modeling with SolidWorks 2012 Commencement Register of the University of California SolidWorks 2016 Reference Guide Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2015 - 2017) Review of the 21st Century Truck Partnership AIA Design for Aging Review 2000 Annual Register of the United States Naval Academy Johnson's Universal Cyclopaedia Commands Guide Tutorial for SolidWorks 2012 Mechanics of Composite Materials and Structures Annual Register of the United States Naval Academy, Annapolis, Md SOLIDWORKS 2019 Reference Guide Applied Biomedical Engineering Mechanics SOLIDWORKS 2018 Reference Guide Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures Wings in Orbit Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards Recent Advances in Multidisciplinary Analysis and Optimization Insights and Innovations in Structural Engineering, Mechanics and Computation SOLIDWORKS 2015 in 5 Hours with Video Instruction SolidWorks 2015 Reference Guide Rail Quality and Maintenance for Modern Railway Operation *G. Ramamurty Dean C. Karnopp Werner Schuder Werner Schuder Werner Schuder Michael E. McCormick David Planchard David Planchard David Planchard David Planchard David Planchard Alphose Zingoni David C. Planchard P.D. Spanos Werner Schuder David C. Planchard University of California, Berkeley University of California (1868-1952) David Planchard David Planchard National Research Council United States Naval Academy David C. Planchard Madhujit Mukhopadhyay United States Naval Academy David Planchard Dhanjoo Ghista David Planchard George Deodatis Wayne Hale National Research Council Alphose Zingoni David Planchard David Planchard J.J. Kalker*

keeping in mind the curricula of various institutes the text of this present edition has been thoroughly revised and several new problems with solutions have been added to make it more competitive and useful for the students solutions to typical problems from statics and dynamics provide the reader sufficient capability for solving the problems of echanics this book focuses on the basic concepts of engineering mechanics and provides fundamental information required for understanding advanced subjects based on mechanics

a groundbreaking text that bridges teh gap between theorterical dyanics and industry applications designed to address the perceived failure of introductory dynamics courses to produce students capable of applying dynamic principles successfully both in subsequent courses and in practice engineering applications of dynamics adopts a much needed practical approach designed to make the subject not only more relevant but more interesting as well written by a highly respected team of authors the book is the

first of its kind to tie dynamics theory directly to real world situations by touching on complex concepts only to the extent of illustrating their value in real world applications the authors provide students with a deeper understanding of dynamics in the engineering of mechanical systems topics of interest include the formulation of equations in forms suitable for computer simulation simulation examples of real engineering systems applications to vehicle dynamics lagrange s equations as an alternative formulation procedure vibrations of lumped and distributed systems three dimensional motion of rigid bodies with emphasis on gyroscopic effects transfer functions for linearized dynamic systems active control of dynamic systems a solutions manual with detailed solutions for al problems in this book is available at the site wiley com college karnopp

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this book is based on the author s experiences in engineering practice and in the classroom the introductory topics in wave mechanics and the presentation of such have their foundations in the courses taught at the u s naval academy the advanced topics have their origins in the postgraduate courses taught at the johns hopkins university

solidworks 2019 quick start introduces the new user to the basics of using solidworks 3d cad software in five easy lessons this book is intended for the student or designer that needs to learn solidworks quickly and effectively for senior capstone machine design kinematics dynamics and other engineering and technology projects that use solidworks as a tool engineers in industry are expected to have solidworks skills for their company s next project students need to learn solidworks without taking a formal cad course based on years of teaching solidworks to engineering students solidworks 2019 quick start concentrates on the areas where the new user improves efficiency in the design modeling process by learning the correct solidworks skills and file management techniques you gain the most knowledge in the shortest period of time you develop a mini stirling engine and investigate the proper design intent and constraints the mini stirling engine is based on the external combustion closed cycle engine of scottish inventor robert stirling in addition to 3d modeling the engine can be used to teach and connect many engineering and physics principles you begin with an overview of solidworks and the user interface ui its menus toolbars and commands with a quick pace you learn the essentials of 2d

sketching part and assembly creation perform motion study develop detailed part and assembly drawings and much more

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solidworks 2022 quick start introduces new users to the basics of using solidworks 3d cad software in five easy lessons this book is intended for the student or designer who needs to learn solidworks quickly and effectively this book is perfect for engineers in industry who are expected to have solidworks skills for their company s next project or students who need to learn solidworks without taking a comprehensive cad course based on years of teaching solidworks to engineering students solidworks 2022 quick start concentrates on the areas where new users can improve efficiency in the design modeling process by learning the correct solidworks skills and file management techniques you gain the most knowledge in the shortest period of time this book begins with an overview of solidworks and the user interface ui its menus toolbars and commands with a quick pace you learn the essentials of 2d sketching part and assembly creation perform motion study develop detailed part and assembly drawings and much more throughout this book you develop a mini stirling engine and investigate the proper design intent and constraints bonus chapters two bonus chapters are included with this book chapter six is a review of the certified solidworks associate cswa exam it will help you understand the curriculum and categories of the cswa exam and the required model knowledge needed to successfully take and

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advances in engineering materials structures and systems innovations mechanics and applications comprises 411 papers that were presented at semc 2019 the seventh international conference on structural engineering mechanics and computation held in cape town south africa from 2 to 4 september 2019 the subject matter reflects the broad scope of semc conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures the many topics featured in these proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning the semc 2019 proceedings will be of interest to civil structural mechanical marine and aerospace engineers researchers developers practitioners and academics in these disciplines will find them useful two versions of the papers are available short versions intended to be concise but self contained summaries of the full papers are in this printed book the full versions of the papers are in the e book

the commands guide tutorial for solidworks 2011 is a comprehensive reference book written to assist the beginner to intermediate user of solidworks 2011 solidworks is an immense software package and no one book can cover all topics for all users the book provides a centralized reference location to address many of the tools features and techniques of solidworks 2011 this book covers

the following system and document properties featuremanagers propertymanagers configurationmanagers rendermanagers 2d and 3d sketch tools sketch entities 3d feature tools motion study sheet metal motion study sustainability sustainability xpress flowxpress photoview 360 pack and go intelligent modeling techniques and more chapter 1 provides a basic overview of the concepts and terminology used throughout this book using solidworks 2011 software if you are completely new to solidworks you should read chapter 1 in detail and complete tutorial 1 tutorial 2 and tutorial 3 in the solidworks tutorials if you are familiar with an earlier release of solidworks you might still want to skim chapter1 to get acquainted with some of the new commands menus and features that you haven t used or you can simply jump to any section in any chapter each chapter 18 total provides detailed propertymanager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the solidworks tool or feature all models for the 240 plus tutorials are provided on the enclosed book cd with their solution initial and final learn by doing not just reading formulate the skills to create modify and edit sketches and solid features you will also learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more the book is designed to compliment the online tutorials and online help contained in solidworks 2011 the goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs

proceedings of the june 1998 conference seventy contributions discuss monte carlo and signal processing methods random vibrations safety and reliability control optimization and modeling of nonlinearity earthquake engineering random processes and fields damage fatigue materials applied prob

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assembly modeling with solidworks 2012 is written to assist the beginning solidworks user with a few months of design experience to the intermediate solidworks user who desires to enhance their skill sets in assembly modeling the book provides a solid foundation in assembly modeling using competency based projects in step by step instructions the book provides examples to start a solidworks session and to understand the following interfaces menu bar toolbar menu bar menu drop down menus context toolbars consolidated drop down toolbars system feedback icons confirmation corner heads up view toolbar commandmanager and more set system options and document properties as they apply to a part and assembly template create new solidworks folder locations document templates reference documents and design library download components from 3d contentcentral and rename

and save components using solidworks explorer apply the bottom up assembly approach with two levels of configurations using the configure component tool the configure dimension tool design tables and the add configuration tool create new parts based on component features utilizing the bottom up assembly approach apply standard mates smartmates and the design library toolbox apply the top down assembly approach with two levels of configurations with in context components understand the following out of context components external references inplace mates redefining and replacing components and motion studies apply the derived feature component pattern tool linear component pattern tool and the mirror component tool along with the explode line sketch tool create a multi sheet multi view assembly drawing knowledge of custom properties in a part assembly and linked notes with the ability to incorporate configurations of an exploded view bill of materials revision tables and more address the layout based assembly approach and global variables and equations to control relationships each chapter begins with the desired outcomes and usage competencies explore assembly modeling techniques through a series of design situations industry scenarios projects and objectives chapter 9 provides a bonus section on the certified solidworks associate cswa program with sample exam questions and initial and final solidworks models passing the cswa exam proves to employers that you have the necessary fundamental engineering graphics and solidworks competencies the book compliments and enhances the solidworks tutorials although over 150 solidworks tools and commands are utilized in assembly modeling with solidworks 2012 the book is not a reference guide the book is a self paced tutorial in a realistic design setting complex models expose you to large assembly modeling techniques you focus on the design process while learning the commands relative to assemblies to obtain the most from this text you should be familiar with the solidworks user interface or other parametric modeling software application your skill sets should include the ability to create simple parts assemblies and drawings and manipulate documents through the windows operating system the authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers these professionals are directly involved with solidworks everyday they create assemblies with thousands of components and drawings with hundreds of sheets their responsibilities go far beyond the creation of just a 3d model

the solidworks 2016 reference guide is a comprehensive reference book written to assist the beginner to intermediate user of solidworks 2016 solidworks is an immense software package and no one book can cover all topics for all users this book provides a centralized reference location to address many of the tools features and techniques of solidworks 2016 this book covers the following system and document propertiesfeaturemanagerspropertymanagersconfigurationmanagersrendermanagers2d and 3d sketch toolssketch entities3d feature toolsmotion studysheet metalmotion studysolidworks simulationphotoview 360pack and go3d

pdfsintelligent modeling techniques3d printing terminology and more chapter 1 provides a basic overview of the concepts and terminology used throughout this book using solidworks 2016 software if you are completely new to solidworks you should read chapter 1 in detail and complete lesson 1 lesson 2 and lesson 3 in the solidworks tutorials if you are familiar with an earlier release of solidworks you still might want to skim chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter each chapter provides detailed propertymanager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the solidworks tool or feature the book provides access to over 240 models their solutions and additional support materials learn by doing not just by reading formulate the skills to create modify and edit sketches and solid features learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more the book is designed to compliment the online tutorials and online help contained in solidworks 2016 the goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs the author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers he is directly involved with solidworks every day and his responsibilities go far beyond the creation of just a 3d model

this book will provide you with a wealth of information about the three segments of the cswp core exam the intended audience for this book is a person who has passed the cswa exam and who has eight or more months of solidworks training and usage this guide is not intended to teach you how to use solidworks but is written to provide you with cswp exam tips hints and information on sample questions and categories that are aligned with the exam this guide is written to help you take and pass the cswp exam the book is organized into three chapters each chapter is focused on a segment of the cswp core exam this is not intended to be a step by step book goals of this book the primary goal is not only to help you pass the cswp core exam but also to ensure that you understand and comprehend the concepts and implementation details of the process the second goal is to provide the most comprehensive coverage of cswp core exam related topics available without too much coverage of topics not on the exam the third and ultimate goal is to get you from where you are today to the point that you can confidently pass all three segments of the cswp core exam who this book is for the intended audience for this book and the cswp exam is a person who has passed the cswa exam and who has eight or more months of solidworks training and usage however passing the cswa exam is not a prerequisite for taking the cswp exam if you are a commercial user in industry for students that take the cswp exam through their school you must first pass the cswa exam

the 21st century truck partnership 21ctp a cooperative research and development partnership formed by four federal agencies with 15 industrial partners was launched in the year 2000 with high hopes that it would dramatically advance the technologies used in trucks and buses yielding a cleaner safer more efficient generation of vehicles review of the 21st century truck partnership critically examines and comments on the overall adequacy and balance of the 21ctp the book reviews how well the program has accomplished its goals evaluates progress in the program and makes recommendations to improve the likelihood of the partnership meeting its goals key recommendations of the book include that the 21ctp should be continued but the future program should be revised and better balanced a clearer goal setting strategy should be developed and the goals should be clearly stated in measurable engineering terms and reviewed periodically so as to be based on the available funds

the design for aging review 5th edition is a compilation of nearly seventy projects that serve aging adults these projects were submitted for the american institute of architects aia 1999 2000 competition in the areas of nursing homes continuing ca

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multiple design situations and systematic steps combine to produce successful designs the authors developed the tutorials by combining their own industry experience with the knowledge of engineers department managers professors vendors and manufacturers these professionals are directly involved with solidworks everyday their responsibilities go far beyond the creation of just a 3d model

this book is an attempt to present an integrated and unified approach to the analysis of frp composite materials which have a wide range of applications in various engineering structures offshore maritime aerospace and civil engineering machine components chemical engineering applications and so on

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presenting the latest innovations this text highlights advances in tissue musculoskeletal locomotive orthopedic occupational ergonomic sports cardiovascular cardiac and pulmonary biomechanics based on years of teaching experience the author uses illustrative examples and detailed explanations to show how mechanics disciplines can be applied to a wide range of clinical applications including the analysis of physiological and organ system processes the creation of physiologically compatible organ assist systems and devices the performance of pre surgical analysis in order to develop optimal surgical approaches and the design of vehicle occupant systems for occupant comfort

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safety reliability risk and life cycle performance of structures and infrastructures contains the plenary lectures and papers presented

at the 11th international conference on structural safety and reliability icossar2013 new york ny usa 16 20 june 2013 this set of a book of abstracts and searchable full paper usbdevice is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures

explains how the space shuttle works and describes a shuttle trip from lift off to touchdown

since cafe standards were established 25 years ago there have been significant changes in motor vehicle technology globalization of the industry the mix and characteristics of vehicle sales production capacity and other factors this volume evaluates the implications of these changes as well as changes anticipated in the next few years on the need for cafe as well as the stringency and or structure of the cafe program in future years

insights and innovations in structural engineering mechanics and computation comprises 360 papers that were presented at the sixth international conference on structural engineering mechanics and computation semc 2016 cape town south africa 5 7 september 2016 the papers reflect the broad scope of the semc conferences and cover a wide range of engineering structures buildings bridges towers roofs foundations offshore structures tunnels dams vessels vehicles and machinery and engineering materials steel aluminium concrete masonry timber glass polymers composites laminates smart materials some contributions present the latest insights and new understanding on i the mechanics of structures and systems dynamics vibration seismic response instability buckling soil structure interaction and ii the mechanics of materials and fluids elasticity plasticity fluid structure interaction flow through porous media biomechanics fracture fatigue bond creep shrinkage other contributions report on iii recent advances in computational modelling and testing numerical simulations finite element modeling experimental testing and iv developments and innovations in structural engineering planning analysis design construction assembly maintenance repair and retrofitting of structures insights and innovations in structural engineering mechanics and computation is particularly of interest to civil structural mechanical marine and aerospace engineers researchers developers practitioners and academics in these disciplines will find the content useful short versions of the papers intended to be concise but self contained summaries of the full papers are collected in the book while the full versions of the papers are on the accompanying cd

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in april 1990 a conference was held at the cracow institute of technology cracow poland the title of that conference was residual stresses in rails effects on rail integrity and railroad economics and its themes were the measurement and prediction of residual stresses in rails but as the sub title suggests the intention was also to provide a link between research and its application to the practical railway world at the cracow conference there were 40 participants with 5 railways and 5 rail makers being represented and 25 papers were given the cracow conference was a success and by march 1991 its off spring the international conference on rail quality and maintenance for modern railway operations was conceived and birth was ultimately given in june 1992 at the technical university delft it turned out to be some baby with 112 delegates from 24 countries taking part as with its predecessor the conference was to provide a forum for the exchange of ideas between research investigators rail makers and railway engineers a cursory examination of the list of participants suggests that about 57 were from the railway industry 34 from universities and other research institutions and 9 from the steel industry bearing in mind that some of the railway industry participants were from their respective research and development organisations the balance of interests was about right

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# From Liters to Gallons: A Simple Guide to Unit Conversion

Understanding different units of measurement is crucial in various aspects of life, from cooking and gardening to engineering and scientific research. Often, we encounter situations requiring conversion between metric (like liters) and imperial (like gallons) systems. This article will focus specifically on converting 700 liters to gallons, explaining the process step-by-step and offering practical examples to solidify your understanding.

# Understanding the Units: Liters and Gallons

Before diving into the conversion, let's briefly define our units. A liter (L) is a metric unit of volume, commonly used for measuring liquids. A gallon (gal) is an imperial unit of volume, predominantly used in the United States and a few other countries. Because these systems use different base units, a direct comparison isn't immediately apparent. We need a conversion factor to bridge this gap.

# The Conversion Factor: Linking Liters and Gallons

The key to converting between liters and gallons is the conversion factor. One US liquid gallon is approximately equal to 3.78541 liters. This means that 1 gallon is larger than 1 liter. This seemingly simple number is the cornerstone of our conversion. It allows us to establish a mathematical relationship between the two units. We will use this factor to convert 700 liters into gallons.

# Converting 700 Liters to Gallons: The Calculation

To convert 700 liters to gallons, we'll use the conversion factor. Since 1 gallon is approximately 3.78541 liters, we can set up a simple equation: 700 liters (1 gallon / 3.78541 liters) = X gallons Notice how the "liters" unit cancels out, leaving us with gallons. Performing the calculation: 700 / 3.78541 ≈ 184.916 gallons Therefore, 700 liters is approximately equal to 184.92 gallons. It's important to round to an appropriate number of significant figures depending on the context of your application. For most practical purposes, 184.92 gallons is sufficiently accurate.

# Practical Examples: Real-World Applications

Let's consider some practical applications of this conversion: Fuel Efficiency: Suppose your car has a fuel tank capacity of 700 liters. Knowing it holds approximately 184.92 gallons allows you to easily compare its size to vehicles with tanks measured in gallons. Water Storage: Imagine you're designing a rainwater harvesting system. If your collection tank holds 700 liters, you can inform potential users that this equates to approximately 184.92 gallons of stored water. Shipping Liquids: In international trade, converting between liters and gallons might be necessary when dealing with shipping containers of liquids, ensuring accurate labeling and documentation.

# Key Takeaways and Insights

The conversion from liters to gallons involves a straightforward calculation using the conversion factor (1 gallon ≈ 3.78541 liters). Understanding this factor allows for accurate conversions between metric and imperial units of volume. Remember to always consider the context and round your answer to an appropriate level of precision. While this article focused on 700 liters, the same method can be applied to any volume expressed in liters.

# Frequently Asked Questions (FAQs)

1. Is the conversion factor always exactly 3.78541? No, it's an approximation. The exact value can vary slightly depending on the temperature and pressure of the liquid. 2. What if I need to convert gallons to liters? Simply reverse the process. Multiply the number of gallons by 3.78541 liters/gallon. 3. Are there different types of gallons? Yes, there are US liquid gallons and Imperial gallons (used in the UK and other Commonwealth countries). The conversion factor differs slightly for Imperial gallons. 4. How accurate does my conversion need to be? The required accuracy depends on the application. For casual purposes, rounding to one or two decimal places is usually sufficient. For scientific or engineering applications, higher precision might be necessary. 5. Can I use an online converter? Yes, many online converters are available to quickly convert between liters and gallons, eliminating the need for manual calculation. However, understanding the underlying principles is still valuable.

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