



# SOLIDWORKS Simulation Premium: Dynamics



STREET,

# **Solidworks 2015 Simulation Professional Training Manual**

**Prof. Sham Tickoo** 

#### **Solidworks 2015 Simulation Professional Training Manual:**

Engineering Analysis with SOLIDWORKS Simulation 2015 Paul Kurowski, 2015 Engineering Analysis with SOLIDWORKS Simulation 2015 goes beyond the standard software manual Its unique approach concurrently introduces you to the SOLIDWORKS Simulation 2015 software and the fundamentals of Finite Element Analysis FEA through hands on exercises A number of projects are presented using commonly used parts to illustrate the analysis features of SOLIDWORKS Simulation Each chapter is designed to build on the skills experiences and understanding gained from the previous chapters Topics covered Linear static analysis of parts and assembliesContact stress analysisFrequency modal analysisBuckling analysisThermal analysisDrop test analysisNonlinear analysisDynamic analysisRandom vibration analysish and p adaptive solution methodsModeling techniquesImplementation of FEA in the design processManagement of FEA projectsFEA Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 Randy Shih, 2015 The primary terminology goal of Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 is to introduce the aspects of Finite Element Analysis FEA that are important to engineers and designers Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation The primary emphasis of the text is placed on the practical concepts and procedures needed to use SOLIDWORKS Simulation in performing Linear Static Stress Analysis and basic Modal Analysis This text covers SOLIDWORKS Simulation and the lessons proceed in a pedagogical fashion to guide you from constructing basic truss elements to generating three dimensional solid elements from solid models This text takes a hands on exercise intensive approach to all the important FEA techniques and concepts This textbook contains a series of fourteen tutorial style lessons designed to introduce beginning FEA users to SOLIDWORKS Simulation The basic premise of this book is that the more designs you create using SOLIDWORKS Simulation the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons **SOLIDWORKS 2015 and Engineering** Graphics Randy Shih, 2015 SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2015 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2015 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based

CAD techniques This textbook contains a series of fifteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2015 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering Design with SolidWorks 2015 and Video Instruction David Planchard, 2014-11-28 Engineering Design with SolidWorks 2015 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components 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 Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2015 View the provided videos in the book to enhance the user experience SolidWorks Interface2D Sketching Sketch Planes and Sketch tools3D Features and Design IntentCreating an AssemblyFundamentals in Drawings Vibration Analysis with SOLIDWORKS Simulation 2015 Paul Kurowski, 2015-04 Vibration Analysis with Part 1 Part 2 SOLIDWORKS Simulation 2015 goes beyond the standard software manual It concurrently introduces the reader to vibration analysis and its implementation in SOLIDWORKS Simulation using hands on exercises A number of projects are presented to illustrate vibration analysis and related topics Each chapter is designed to build on the skills and understanding gained from

previous exercises Vibration Analysis with SOLIDWORKS Simulation 2015 is designed for users who are already familiar with the basics of Finite Element Analysis FEA using SOLIDWORKS Simulation or who have completed the book Engineering Analysis with SOLIDWORKS Simulation 2015 Vibration Analysis with SOLIDWORKS Simulation 2015 builds on these topics in the area of vibration analysis Some understanding of structural analysis and solid mechanics is recommended Topics CoveredDifferences between rigid and elastic bodiesDiscrete and distributed vibration systemsModal analysis and its applicationsModal Superposition MethodModal Time History Time Response analysisHarmonic Frequency Response analysisRandom Vibration analysisResponse Spectrum analysisNonlinear Vibration analysisModeling techniques in vibration Pixologic ZBrush 2020: A Comprehensive Guide, 6th Edition Prof. Sham Tickoo, 2020-05-04 Pixologic ZBrush 2020 A Comprehensive Guide covers all features of ZBrush 2020 in a simple lucid and comprehensive manner It gives in depth details of the concepts and explains the usage and tools of ZBrush such as DynaMesh NanoMesh ZRemesher ZModeler NanoMesh and KeyShot renderer This book will unleash your creativity and transform your imagination into reality thus helping you create realistic 3D models In this edition the author has provided detailed explanation of some new and enhanced concepts such as CamView and Spotlight Moreover new sculpting brushes like XTractor and HistoryRecall have been covered Additionally the concepts like Array ZPlugin and FiberMesh are explained with the help of step by step instructions Salient Features Consists of 12 chapters 1 project that are organized in a pedagogical sequence Covers all aspects such as modeling texturing lighting animation in ZBrush Tutorial approach to explain the concepts and usage of tools First page of every chapter summarizes the topics that are covered in the chapter Additional information is provided throughout the book in the form of notes and tips Self Evaluation test Review Questions at the end of each chapter so that the users can assess their knowledge Table of Contents Chapter 1 Exploring ZBrush Interface Chapter 2 Sculpting Brushes Chapter 3 Introduction to Digital Sculpting Chapter 4 SubTools and FiberMesh Chapter 5 ZSpheres Chapter 6 DynaMesh NanoMesh and ZRemesher Chapter 7 ShadowBox Chapter 8 Materials in ZBrush Chapter 9 Texturing in ZBrush Chapter 10 UV Master Chapter 11 Lighting Chapter 12 Rendering Project 1 Cartoon Character Modeling Index Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSWA-SD, CSWSA-FEA, CSWA-AM (2017-2019) David Planchard, 2019-01-15 This book is written to assist you with passing the SOLIDWORKS associate level exams It provides you with detailed information and exercises that will aid you in passing the following exams Certified SOLIDWORKS Associate CSWA Certified SOLIDWORKS Associate Sustainable Design CSWA SD Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA and the Certified SOLIDWORKS Associate Additive Manufacturing CSWA AM exam There are three goals for this book The primary goal of this book is not only to help you pass the CSWA CSWA SD CSWSA FEA and CSWA AM exams but also to ensure that you understand and comprehend the concepts and implementation details of the four certification processes The second goal is to provide the most comprehensive coverage of CSWA CSWA SD CSWSA FEA

and CSWA AM 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 the CSWA CSWA SD CSWSA FEA and Handbook of Research on Green Engineering Techniques for Modern Manufacturing Uthayakumar, M., Raj, S. Aravind, Ko, Tae Jo, Kumaran, S. Thirumalai, Davim, J. Paulo, 2018-11-16 Green manufacturing has developed into an essential aspect of contemporary manufacturing practices calling for environmentally friendly and sustainable techniques Implementing successful green manufacturing processes not only improves business efficiency and competitiveness but also reduces harmful production in the environment The Handbook of Research on Green Engineering Techniques for Modern Manufacturing provides emerging perspectives on the theoretical and practical aspects of green industrial concepts such as green supply chain management and reverse logistics for the sustainable utilization of resources and applications within manufacturing and engineering Featuring coverage on a broad range of topics such as additive manufacturing integrated manufacturing systems and machine materials this publication is ideally designed for engineers environmental professionals researchers academicians managers policymakers and graduate level students seeking current research on recent and sustainable practices in manufacturing processes Engineering Design with SOLIDWORKS 2016 and Video Instruction David Planchard, 2015-12 Engineering Design with SOLIDWORKS 2016 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components 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 Bills of Materials Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality. The author developed

the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far bevond the creation of just a 3D model The book is designed to compliment the SOLIDWORKS Tutorials contained in SOLIDWORKS 2016 Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction Khosrow-Pour, D.B.A., Mehdi, 2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciples such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation **Sustainable Product Development** Daizhong Su,2020-05-12 This book offers a comprehensive review of sustainability and product design providing useful information on the relevant regulations and standards for industries to meet increasing market demands for eco products while reducing their impact on the environment The examples and methods presented allow readers to gain insights into sustainable products The authors also explain how to develop products with sustainability features by applying tools and methods for sustainable design and manufacture These tools methods include Regulations directives related to sustainable product development Popular lifecycle analysis software packages Environmental and social lifecycle impact assessment methods Lifecycle inventory databases Eco point and eco accounting infrastructure ICT and traceability technologies for sustainable product development Sustainable design and manufacture Integrated approach for sustainable product development A description of each sustainability tool is accompanied by easy to understand guidelines as well as sustainable product development methods Five different case studies are also presented to illustrate how to apply the tools and methods into the development of real sustainable products In view of the increasing pressure on industries to meet the sometimes conflicting demands of the market and environment this book is a valuable resource for engineers and managers in manufacturing companies wishing to update their knowledge of sustainable product development It is also suitable for researchers and consultants who are involved or interested in sustainable product development as well as for students studying sustainable development production and engineering management e-Design Kuang-Hua Chang, 2015-03-17 e Design is the first book to integrate discussion of computer design tools throughout the design process Through this book the reader will understand Basic design principles and all digital design paradigms CAD CAE CAM tools available for various design related tasks How to put

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Engineering Energy and Environmental Engineering Social Engineering Information Engineering Bioengineering and Chemical engineering Engineering Management Decision Support System Project and Quality Management Human Resource Management The book will be of interest to academics and professionals in Engineering Technologies Engineering Education Additive Manufacturing of Metals John O. Milewski, 2017-06-28 This engaging volume and Engineering Management presents the exciting new technology of additive manufacturing AM of metal objects for a broad audience of academic and industry researchers manufacturing professionals undergraduate and graduate students hobbyists and artists Innovative applications ranging from rocket nozzles to custom jewelry to medical implants illustrate a new world of freedom in design and fabrication creating objects otherwise not possible by conventional means The author describes the various methods and advanced metals used to create high value components enabling readers to choose which process is best for them Of particular interest is how harnessing the power of lasers electron beams and electric arcs as directed by advanced computer models robots and 3D printing systems can create otherwise unattainable objects A timeline depicting the evolution of metalworking accelerated by the computer and information age ties AM metal technology to the rapid evolution of global technology trends Charts diagrams and illustrations complement the text to describe the diverse set of technologies brought together in the AM processing of metal Extensive listing of terms definitions and acronyms provides the reader with a quick reference guide to the language of AM metal processing The book directs the reader to a wealth of internet sites providing further reading and resources such as vendors and service providers to jump start those interested in taking the first steps to establishing AM metal capability on whatever scale The appendix provides hands on example exercises for those ready to engage in experiential self directed learning Introduction to Solid Modeling Using SolidWorks 2015 Joseph Musto, William Howard, 2015-05-21 The new edition of Introduction to Solid Modeling Using SolidWorks 2015 has been fully updated for the SolidWorks 2015 software package All tutorials and figures have been modified for the new version of the software The eleventh edition of this text primarily consists of chapter long tutorials which introduce both basic concepts in solid modeling and more advanced applications of solid modeling in engineering analysis and design Each tutorial is organized as keystroke level instructions designed to teach the use of the software While these tutorials offer a level of detail appropriate for new professional users this text was developed to be used as part of an introductory engineering course taught around the use of solid modeling as an integrated engineering design and analysis tool Features such as Design Intent Boxes and Future Study Boxes help to integrate the concepts learned in solid modeling into the overall study of engineering Additional resources are also available with this text at www mhhe com howard2015 Included on the website are tutorials for three popular SolidWorks Add Ins SolidWorks Simulation SolidWorks Motion and PhotoView 360 and the book figures in PowerPoint format Instructors can also access PowerPoint files for each chapter and model files for all tutorials and end of chapter problems as well as a teaching guide **SolidWorks Simulation 2015 Black Book Matt Weber. Gaurav** 

Verma, 2015-01-02 The SolidWorks Simulation 2015 Black Book is written to help professionals as well as learners in performing various tedious jobs in Finite Element Analysis The book follows a step by step methodology This book is more concentrated on making you able to use tools at right places The book covers almost all the information required by a learner to master the SolidWorks Simulation The book starts with basics of FEA goes through all the simulation tools and ends up with practical examples of analysis Chapters on manual FEA ensure the firm understanding of FEA concepts through SolidWorks Simulation This upgraded version of book contains our special sections named Why We have given reasons for selecting every option in analysis under these Why sections Some of the salient features of this book are In Depth explanation of concepts Every new topic of this book starts with the explanation of the basic concepts In this way the user becomes capable of relating the things with real world Topics Covered Every chapter starts with a list of topics being covered in that chapter In this way the user can easy find the topic of his her interest easily Instruction through illustration The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively There are about 800 illustrations that make the learning process effective Tutorial point of view The book explains the concepts through the tutorial to make the understanding of users firm and long lasting Each chapter of the book has tutorials that are real world projects Why The book explains the reasons for selecting options or setting a parameters in tutorials explained in the book Project Free projects and exercises are provided to students for practicing For Faculty If you are a faculty member then you can ask for video tutorials on any of the topic exercise tutorial or SolidWorks Simulation 2015 Black Book (Color) Gaurav Verma, Matt Weber, 2015-09-08 The SolidWorks concept Simulation 2015 Black Book is written to help professionals as well as learners in performing various tedious jobs in Finite Element Analysis The book follows a step by step methodology This book is more concentrated on making you able to use tools at right places The book covers almost all the information required by a learner to master the SolidWorks Simulation The book starts with basics of FEA goes through all the simulation tools and ends up with practical examples of analysis Chapters on manual FEA ensure the firm understanding of FEA concepts through SolidWorks Simulation This upgraded version of book contains our special sections named Why We have given reasons for selecting every option in analysis under these Why sections Some of the salient features of this book are In Depth explanation of concepts Every new topic of this book starts with the explanation of the basic concepts In this way the user becomes capable of relating the things with real world Topics Covered Every chapter starts with a list of topics being covered in that chapter In this way the user can easy find the topic of his her interest easily Instruction through illustration The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively There are about 800 illustrations that make the learning process effective Tutorial point of view The book explains the concepts through the tutorial to make the understanding of users firm and long lasting Each chapter of the book has tutorials that are

real world projects Why The book explains the reasons for selecting options or setting a parameters in tutorials explained in SolidWorks 2015 Reference Guide David Planchard, 2014-11-02 The SolidWorks 2015 Reference Guide is a the book comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2015 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 2015 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 2015 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 2015 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

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, **Solidworks 2015 Simulation Professional Training Manual**. This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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## **Table of Contents Solidworks 2015 Simulation Professional Training Manual**

- 1. Understanding the eBook Solidworks 2015 Simulation Professional Training Manual
  - The Rise of Digital Reading Solidworks 2015 Simulation Professional Training Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Solidworks 2015 Simulation Professional Training Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solidworks 2015 Simulation Professional Training Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solidworks 2015 Simulation Professional Training Manual
  - Personalized Recommendations
  - Solidworks 2015 Simulation Professional Training Manual User Reviews and Ratings
  - Solidworks 2015 Simulation Professional Training Manual and Bestseller Lists
- 5. Accessing Solidworks 2015 Simulation Professional Training Manual Free and Paid eBooks
  - Solidworks 2015 Simulation Professional Training Manual Public Domain eBooks
  - Solidworks 2015 Simulation Professional Training Manual eBook Subscription Services
  - Solidworks 2015 Simulation Professional Training Manual Budget-Friendly Options
- 6. Navigating Solidworks 2015 Simulation Professional Training Manual eBook Formats

- o ePub, PDF, MOBI, and More
- Solidworks 2015 Simulation Professional Training Manual Compatibility with Devices
- Solidworks 2015 Simulation Professional Training Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solidworks 2015 Simulation Professional Training Manual
  - Highlighting and Note-Taking Solidworks 2015 Simulation Professional Training Manual
  - Interactive Elements Solidworks 2015 Simulation Professional Training Manual
- 8. Staying Engaged with Solidworks 2015 Simulation Professional Training Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solidworks 2015 Simulation Professional Training Manual
- 9. Balancing eBooks and Physical Books Solidworks 2015 Simulation Professional Training Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Solidworks 2015 Simulation Professional Training Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solidworks 2015 Simulation Professional Training Manual
  - Setting Reading Goals Solidworks 2015 Simulation Professional Training Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solidworks 2015 Simulation Professional Training Manual
  - $\circ\,$  Fact-Checking eBook Content of Solidworks 2015 Simulation Professional Training Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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