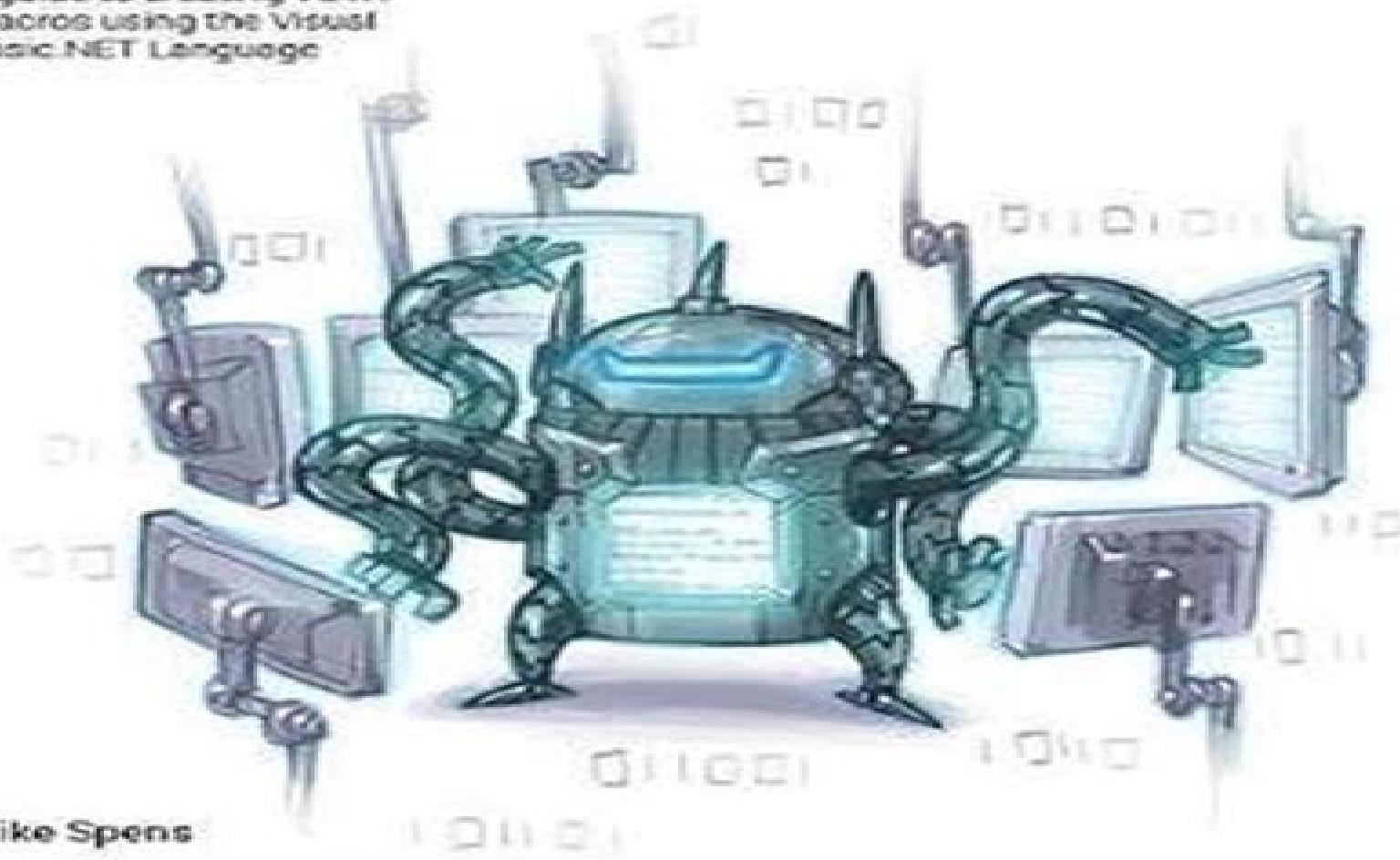


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2011 Using Macros Mike Spens,2010 Automating SolidWorks 2011 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM The focus of this book is primarily on the Visual Studio Tools for Applications VSTA macro interface It covers many of the major API functions through practical use cases It teaches many Visual Basic NET fundamentals as well as SolidWorks SolidWorks Workgroup PDM and Excel API functions The Author has also added a chapter dedicated to some of his favorite source code for you to use as the basis for typical automation procedures Using this book you will learn how to Record macros Control Custom Properties Create parts and features Build assemblies Batch create drawings Extract information from Workgroup PDM Create many other time saving utilities

Automating SOLIDWORKS 2021 Using Macros Mike Spens,2021-03-18 Engineers working with SOLIDWORKS are often faced with tedious repetitive work that can consume a lot of time but it doesn t have to be this way One of the most exciting aspects of SOLIDWORKS is its robust programming interface or API The SOLIDWORKS API allows you to write code that can perform almost any series of actions for you SOLIDWORKS was built from the ground up to automate and in this book you will learn how to take advantage of these powerful tools to speed up your work Automating SOLIDWORKS 2021 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS Experience with programming isn t required The book starts with a new chapter on the fundamentals of Visual Basic NET and the SOLIDWORKS API to make the learning process easier for beginners The rest of the book

introduces you to developing macros using the SOLIDWORKS API. The book concludes with a chapter dedicated to some of the author's favorite source code for you to use as the basis for typical automation procedures. The focus of this book is primarily on the Visual Studio Tools for Applications VSTA macro interface. It covers many of the major API functions through practical use cases. It will teach you the fundamentals of Visual Basic .NET as well as SOLIDWORKS, SOLIDWORKS PDM Professional, SOLIDWORKS Document Manager and Excel API functions. Author Mike Spens has been professionally developing macros for SOLIDWORKS for more than a decade. He has helped numerous companies develop their own programs and streamline their workflows. If you want to learn how to develop your own macros for SOLIDWORKS following best practices and using well written code then this is the perfect book for you. **Automating SOLIDWORKS 2019 Using Macros** Mike Spens, 2019. Engineers working with SOLIDWORKS are often faced with tedious repetitive work that can consume a lot of time but it doesn't have to be this way. One of the most exciting aspects of SOLIDWORKS is its robust programming interface or API. The SOLIDWORKS API allows you to write code that can perform almost any series of actions for you. SOLIDWORKS was built from the ground up to automate and in this book you will learn how to take advantage of these powerful tools to speed up your work. **Automating SOLIDWORKS 2019 Using Macros** is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS. Experience with programming isn't required. The book starts with a new chapter on the fundamentals of Visual Basic .NET and the SOLIDWORKS API to make the learning process easier for beginners. The rest of the book introduces you to developing macros using the SOLIDWORKS API. The book concludes with a chapter dedicated to some of the author's favorite source code for you to use as the basis for typical automation procedures. The focus of this book is primarily on the Visual Studio Tools for Applications VSTA macro interface. It covers many of the major API functions through practical use cases. It will teach you the fundamentals of Visual Basic .NET as well as SOLIDWORKS, SOLIDWORKS PDM Professional, SOLIDWORKS Document Manager and Excel API functions. Author Mike Spens has been professionally developing macros for SOLIDWORKS for more than a decade. He has helped numerous companies develop their own programs and streamline their workflows. If you want to learn how to develop your own macros for SOLIDWORKS following best practices and using well written code then this is the perfect book for you. **Automating SolidWorks 2009 Using Macros** Mike Spens, 2008-11. **Automating SolidWorks 2009 Using Macros** is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM. This new edition focuses primarily on the new Visual Studio Tools for Applications VSTA macro interface. It covers many of the major API functions through practical use cases. It teaches many Visual Basic .NET fundamentals as well as SolidWorks, SolidWorks Workgroup PDM and Excel API functions. The Author has also added a chapter dedicated to some of his favorite source code for you to use as the basis for typical automation procedures. **Automating SOLIDWORKS 2023 Using Macros** Mike Spens, 2023-05-04. Learn how to save time by automating repetitive work. Teaches you how to develop macros for

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Automating Solidworks

2013 Using Macros Mike Spens, 2013-07-17 *Automating SolidWorks 2013 Using Macros* is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM. The focus of this book is primarily on the Visual Studio Tools for Applications VSTA macro interface. It covers many of the major API functions through practical use cases. It teaches many Visual Basic .NET fundamentals as well as SolidWorks SolidWorks Workgroup PDM and Excel API functions. The Author has also added a chapter dedicated to some of his favorite source code for you to use as the basis for typical automation procedures. What you'll learn: Record macros, Control Custom Properties, Create parts and features, Build assemblies, Batch create drawings, Extract information from Workgroup PDM, Create many other time saving utilities.

Informatics in Control, Automation and Robotics Oleg Gusikhin, Kurosh Madani, 2019-04-18 The book focuses the latest endeavours relating researches and developments conducted in fields of Control, Robotics and Automation. Through more than twenty revised and extended articles the present book aims to provide the most up to date state of art of the aforementioned fields allowing researcher, PhD students and engineers not only updating their knowledge but also benefiting from the source of inspiration that represents the set of selected articles of the book. The deliberate intention of editors to cover as well theoretical facets of those fields as their practical accomplishments and implementations offers the benefit of gathering in a same volume a factual and well balanced prospect of nowadays research in those topics. A special attention toward Intelligent Robots and Control may characterize another benefit of this book.

Automating SolidWorks

2004 Using Macros Mike Spens, 2004 **Automating Macros Using SolidWorks 2006** Mike Spens, 2005-11

SolidWorks API Series 1: Programming & Automation Luke Malpass, 2014-01-11 The first in the series of books on programming of the SolidWorks CAD software is here. Shipping to anywhere in the world. If you are new to programming or a seasoned developer this book suits all levels. Covering VBA, C and VB .Net this is the only book you will need to know everything you need about the SolidWorks API.

SolidWorks 2015 Reference Guide David Planchard, 2014-11-02

The SolidWorks 2015 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of

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SolidWorks 2015 Part II - Advanced Techniques
Paul Tran, 2014-12-12 SolidWorks 2015 Part II Advanced Techniques picks up where SolidWorks 2015 Part I Basic Tools leaves off. Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks. The text covers parts, surfaces, SimulationXpress, sheet metal, top down assemblies, and core and cavity molds. Every lesson and exercise in this book was created based on real world projects. Each of these projects have been broken down and developed into easy and comprehensible steps for the reader. Furthermore, at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step. Who this book is for: This book is for the intermediate user who has already completed the Part I Basic Tools book or someone who is very familiar with the SolidWorks Program and its add ins.

Learning SolidWorks 2015 Randy Shih, 2015-02-09 This book will teach you everything you need to know to start using SolidWorks

2015 with easy to understand step by step tutorials This book features a simple robot design used as a project throughout the book You will learn to model parts create assemblies run simulations and even create animations of your robot design No previous experience with Computer Aided Design CAD is needed since this book starts at an introductory level The author begins by getting you familiar with the SolidWorks interface and its basic tools right away You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi view drawings Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships You will also become familiar with many of SolidWorks s powerful tools and commands that enable you to easily construct complex features in your models Also included is coverage of gears gear trains and spur gear creation using SolidWorks This book continues by examining the different mechanisms commonly used in walking robots You will learn the basic types of planar four bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages Using the knowledge you gained about linkages and mechanism you will learn how to modify your robot and change its behavior by modifying or creating new parts In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis You will finish off your project by creating 3D animations of your robot in action There are many books that show you how to perform individual tasks with SolidWorks but this book takes you through an entire project and shows you the complete engineering process By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA Mechanical Tiger and can start building your own robot

Using AI for SOLIDWORKS Darryl Howe, 2025-11-12 Boost your design workflow with generative tools automation and intelligent modelling Artificial intelligence is changing the way engineers and designers use SOLIDWORKS This practical guide shows how AI can help you design faster optimise smarter and automate the tasks that slow you down Whether you're a professional engineer product designer or student learning SOLIDWORKS for the first time this book explains how to integrate AI tools and techniques into every stage of your workflow from concept to simulation and final documentation Inside you'll discover how to Use AI driven assistants to automate mates feature selection and fastener placement Apply parametric and topology optimisation to create lighter stronger designs Explore generative design and node based workflows on the 3DEXPERIENCE platform Write and use macros and API scripts with help from ChatGPT and AI code generation Convert and clean up mesh data using AI powered reverse engineering tools Automate reports drawings and documentation with intelligent templates Learn how SOLIDWORKS combines classic parametric modelling with the newest AI features to predict optimise and refine your designs in record time You'll also see how to integrate ChatGPT and other third party tools to generate code documentation and creative design ideas safely and efficiently Whether you're interested in generative design machine learning in CAD or simply working smarter this book gives you the knowledge and examples to take your SOLIDWORKS skills to the next level

[SolidWorks 2015 Learn by Doing \(Part, Assembly, Drawings, Sheet Metal,](#)

Surface Design, Mold Tools, Weldments, DimXpert, and Rendering) Tutorial Books, 2015-02-12 The objective of this book is to help you learn SOLIDWORKS 2015 by practically using its various features The fourteen lessons in this tutorial introduce you to the designing documentation and presentation in SOLIDWORKS 2015 The topics covered in this tutorial are part and assembly design sketch 3D part assembly 2D drawing sheetmetal surface design mold tools weldments DimXpert and rendering Automation of SolidWorks by the Application Programming Interface (API) with Visual Basic for Applications Chris Milt Stimson, 2005 *Learning Automating Design with SolidWorks and DriveWorksXpress* Matt Perez, 2014 In this Automating Design with SolidWorks and DriveWorksXpress training course expert author Matt Perez will teach you all about design automation using DriveWorksXpress which is found inside SolidWorks This course is designed for users that have some SolidWorks experience but no experience with DriveWorks is required You will start by learning how to gain access to DriveWorksXpress and then jump into seeing how to set up the model Matt will then show you how to create a database and teaches you about the capture process including how to capture models dimensions and features This video tutorial will also cover topics such as forms rules how to run and check your model and capturing and working with assemblies Once you have completed this computer based training course you will fully understand the process of using DriveWorksXpress and be able to apply this knowledge to your own design automation projects Working files are included allowing you to follow along with the author throughout the lessons Resource description page

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