

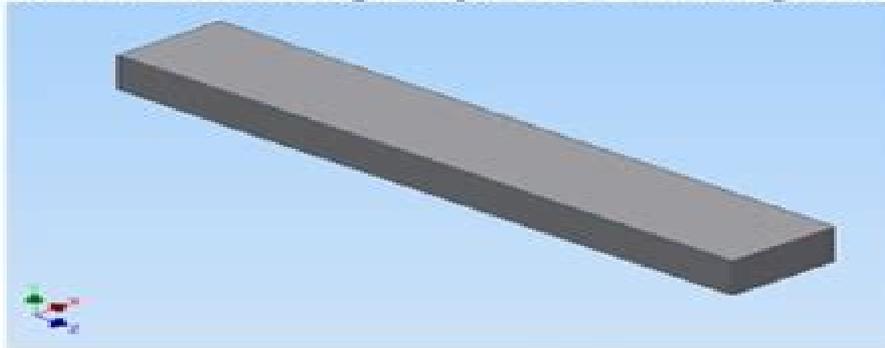
AUTODESK INVENTOR FEA ANALYSIS TUTORIAL

By: Jonathan DeRoner

This tutorial is to serve the purpose of performing calculations within the stress analysis environment of Autodesk Inventor Professional. While the environment may slightly change in terms of layout during each release, this will give the basics on how to set up the different types of calculations that can be performed. This tutorial is being written using Autodesk Inventor Professional 2014.

Getting Started

You will first want to begin by opening the desired part in Inventor. For this part of the tutorial we will be using a simple 1 X 2 inch rectangular beam that is 12 inches long.



Name: FEA Tutorial Bar

A- Defining Material

Inventor has a very large library of materials to choose from for your parts that you produce. By applying these materials, this will make calculations that we will be doing as accurate as possible. For this part we will be applying **Mild Steel** as our material to the rectangular beam.



Step 1: Click on the dropdown list above and locate **Steel, Mild** in the list. You will notice that once you select the material that the color of the part changes to a brighter gray color. This means the part is now made of mild steel in Inventor.

Analysis And Simulation Tutorial Autodesk Inventor

Ying-Ying Zheng



Analysis And Simulation Tutorial Autodesk Inventor:

Mastering Autodesk Inventor 2015 and Autodesk Inventor LT 2015 Autodesk Official Press Curtis

Waguespack,2014-05-16 The Autodesk Inventor program was introduced in 1999 as an ambitious 3D parametric modeler based not on the familiar Autodesk AutoCAD software programming architecture but instead on a separate foundation that would provide the room needed to grow into the fully featured modeler it is now more than a decade later Autodesk Inventor 2015 continues the development of Autodesk Inventor with improved modeling drawing assembly and visualization tools Autodesk has set out to improve this release of Autodesk Inventor by devoting as much time and energy to improving existing tools and features as it has to adding new ones With this book the sixth edition of Mastering Autodesk Inventor 2015 and Autodesk Inventor LT 2015 I have set out to update the existing pages and add new content and exercises In these pages you will find detailed information on the specifics of the tools and the principles of sound parametric design techniques Some readers will find this book works best for them as a desktop reference whereas others will use it primarily for the step by step tutorials With this in mind I've worked to shape the pages of this book with a mix of reference material instructional steps and tips and hints from the real world

Machine Analysis with Computer Applications for Mechanical Engineers

James Doane,2015-09-28 The aim of this book is to motivate students into learning Machine Analysis by reinforcing theory and applications throughout the text The author uses an enthusiastic hands on approach by including photos of actual mechanisms in place of abstract line illustrations and directs students towards developing their own software for mechanism analysis using Excel Matlab An accompanying website includes a detailed list of tips for learning machine analysis including tips on working homework problems note taking preparing for tests computer programming and other topics to aid in student success Study guides for each chapter that focus on teaching the thought process needed to solve problems by presenting practice problems are included as are computer animations for common mechanisms discussed in the text

ANSYS Workbench Tutorial Release 13 Kent L. Lawrence,2011 The exercises in ANSYS Workbench Tutorial Release 13 introduce the reader to effective engineering problem solving through the use of this powerful modeling simulation and optimization tool Topics that are covered include solid modeling stress analysis conduction convection heat transfer thermal stress vibration and buckling It is designed for practicing and student engineers alike and is suitable for use with an organized course of instruction or for self study

Basics of Autodesk Inventor Nastran 2021 (Colored) Gaurav Verma,Matt Weber,2020-06-21 The Basics of Autodesk Inventor Nastran 2021 is a book to help professionals as well as students in learning basics of Finite Element Analysis via Autodesk Inventor Nastran The book follows a step by step methodology This book explains the background work running behind your simulation analysis screen The book starts with introduction to simulation and goes through all the analyses tools of Autodesk Inventor Nastran with practical examples of analysis Chapter on manual FEA ensure the firm understanding of FEA concepts 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 300 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 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 concept **NASA Tech Briefs** ,2001 **Basics of Autodesk Inventor Nastran 2021** Gaurav Verma,Matt Weber,2020-06-20 The Basics of Autodesk Inventor Nastran 2021 is a book to help professionals as well as students in learning basics of Finite Element Analysis via Autodesk Inventor Nastran The book follows a step by step methodology This book explains the background work running behind your simulation analysis screen The book starts with introduction to simulation and goes through all the analyses tools of Autodesk Inventor Nastran with practical examples of analysis Chapter on manual FEA ensure the firm understanding of FEA concepts 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 300 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 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 concept *Autodesk Inventor for Designers Release 6 with Release 7 Update Guide* Cadcim Technologies,Sham Tickoo,2003 *Basics of Autodesk Inventor Nastran 2022* Gaurav Verma,Matt Weber,2021-07 The Basics of Autodesk Inventor Nastran 2022 3rd edition is a book to help professionals as well as students in learning basics of Finite Element Analysis via Autodesk Inventor Nastran The book follows a step by step methodology This book explains the background work running behind your simulation analysis screen The book starts with introduction to simulation and goes through all the analyses tools of Autodesk Inventor Nastran with practical examples of analysis Chapter on manual FEA ensure the firm understanding of FEA concepts 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 400 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 Project 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 concept

Up and Running with Autodesk Inventor Simulation 2011 Wasim Younis,2010-04-15 Up and Running with Autodesk Inventor Simulation 2011 provides a clear path to perfecting the skills of designers and engineers using simulation inside Autodesk Inventor This book includes modal analysis stress singularities and H P convergence in addition to the new frame analysis functionality The book is divided into three sections dynamic solution stress analysis and frame analysis with a total of nineteen chapters The first chapter of each section offers an overview of the topic covered in that section There is also an overview of the Inventor Simulation interface and its strengths weaknesses and workarounds Furthermore the book emphasizes the joint creation process and discusses in detail the unique and powerful parametric optimization function This book will be a useful learning tool for designers and engineers and a source for applying simulation for faster production of better products Get up to speed fast with real life step by step design problems 3 new to this edition Discover how to convert CAD models to working digital prototypes enabling you to enhance designs and simulate real world performance without creating physical prototypes Learn all about the frame analysis environment new to Autodesk Inventor Simulation 2011 and other key features of this powerful software including modal analysis assembly stress analysis parametric optimization analysis effective joint creation and more Manipulate and experiment with design solutions from the book using datasets provided on the book s companion website <http://www.elsevierdirect.com/v2/companion.jsp> ISBN 9780123821027 and move seamlessly onto tackling your own design challenges with confidence New edition features enhanced coverage of key areas including stress singularities h p convergence curved elements mechanism redundancies FEA and simulation theory with hand calculations and more

Basics of Autodesk Inventor Nastran 2022 (Colored) Gaurav Verma,Matt Weber,2021-07 The Basics of Autodesk Inventor Nastran 2022 3rd edition is a book to help professionals as well as students in learning basics of Finite Element Analysis via Autodesk Inventor Nastran The book follows a step by step methodology This book explains the background work running behind your simulation analysis screen The book starts with introduction to simulation and goes through all the analyses tools of Autodesk Inventor Nastran with practical examples of analysis Chapter on manual FEA ensure the firm understanding of FEA concepts 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 easily 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 400 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 Project 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 concept

Learning Autodesk Inventor 2024 Randy Shih, 2023 Teaches beginners how to use Autodesk Inventor with easy to understand tutorials Features a simple robot design used as a project throughout the book Covers modeling gear creation linkage analysis assemblies simulations and 3D animation Available with an optional robot kit This book will teach you everything you need to know to start using Autodesk Inventor 2024 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 An unassembled version of the same robot used throughout the book can be bundled with the book 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 Inventor interface and its basic tools 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 Inventor'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 Autodesk Inventor 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 Autodesk Inventor 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

The Software Encyclopedia, 1986 *Parametric Modeling with Autodesk Inventor 2017* Randy Shih, 2016-05 *Parametric Modeling with Autodesk Inventor 2017* contains a series of sixteen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling It

uses a hands on exercise intensive approach to all the important parametric modeling techniques and concepts The lessons guide the user from constructing basic shapes to building intelligent mechanical designs creating multi view drawings and assembly models Other featured topics include sheet metal design motion analysis 2D design reuse collision and contact stress analysis and the Autodesk Inventor 2017 Certified User Examination *Up and Running with Autodesk Inventor Simulation 2010* Wasim Younis,2009-05-21 Inventor Simulation is an essential part of the Autodesk Digital Prototyping process It allows engineers and designers to explore and test components and products virtually visualizing and simulating real world performance Up and Running with Autodesk Inventor Simulation 2010 is dedicated to the requirements of Inventor users who need to quickly learn or refresh their skills and apply the dynamic simulation assembly analysis and optimization capabilities of Inventor Simulation 2010 Step by step approach gets you up and running fast Discover how to convert CAD models to working digital prototypes enabling you to enhance designs reduce over design failure and the need to create physical prototypes Extensive real world design problems explore all the new and key features of the 2010 software including assembly stress analysis parametric optimization analysis creating joints effectively avoiding redundant joints unknown force logic conditions and more Tips and guidance you to tackle your own design challenges with confidence

Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 Paul Munford,Paul Normand,2015-12-11 Your real world introduction to mechanical design with Autodesk Inventor 2016 Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 is a complete real world reference and tutorial for those learning this mechanical design software With straightforward explanations and practical tutorials this guide brings you up to speed with Inventor in the context of real world workflows and environments You ll begin designing right away as you become acquainted with the interface and conventions and then move into more complex projects as you learn sketching modeling assemblies weldment design functional design documentation visualization simulation and analysis and much more Detailed discussions are reinforced with step by step tutorials and the companion website provides downloadable project files that allow you to compare your work to the pros Whether you re teaching yourself teaching a class or preparing for the Inventor certification exam this is the guide you need to quickly gain confidence and real world ability Inventor s 2D and 3D design features integrate with process automation tools to help manufacturers create manage and share data This detailed guide shows you the ins and outs of all aspects of the program so you can jump right in and start designing with confidence Sketch model and edit parts then use them to build assemblies Create exploded views flat sheet metal patterns and more Boost productivity with data exchange and visualization tools Perform simulations and stress analysis before the prototyping stage This complete reference includes topics not covered elsewhere including large assemblies integrating other CAD data effective modeling by industry effective data sharing and more For a comprehensive real world guide to Inventor from a professional perspective Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 is the easy to follow hands on training you ve been looking for **Parametric**

Modeling with Autodesk Inventor 2018 Randy Shih,2017-09-07 Parametric Modeling with Autodesk Inventor 2018 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling It uses a hands on exercise intensive approach to all the important parametric modeling techniques and concepts The lessons guide the user from constructing basic shapes to building intelligent mechanical designs creating multi view drawings and assembly models Other featured topics include sheet metal design motion analysis 2D design reuse collision and contact stress analysis 3D printing and the Autodesk Inventor 2018 Certified User Examination

Comprehensive Energy Systems Ibrahim Dincer,2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

Effectiveness of RWIS Bridge Temperature Simulators ,2007 Bridge deck simulators BDSs 6 in 15 cm concrete cubes with an embedded temperature probe are intended as a cost effective substitute for RWIS pavement sensors to represent conditions likely on bridge decks in an area near an RWIS station In this study the effectiveness of the BDSs to predict the temperature on nearby bridge decks was evaluated Nine sites were selected by ODOT across the state of Ohio six in northeastern region and three in southwestern region which were instrumented with BDSs and Nu Metrics pavement sensors on the bridge deck and with one exception on the road surface off the bridge The use of BDSs appears to be unique to Ohio A survey in the state of Ohio indicated little use was being made of BDS information RWIS temperature data collected at five minute intervals during winter season 2004 2005 were analyzed and the unusable data were weeded out by removing redundant entries blank or incomplete entries extreme temperature readings and entries where sensor data were not updated Correlation analysis was performed on the cleaned data from the nine sites for the air and BDS temperatures versus bridge deck and road temperatures and also for air versus BDS temperatures Separate correlations were made with all day data and with nighttime data free of solar radiation effects For both all day and nighttime data the BDS was found to better correlate with bridge deck and road temperatures than was the air temperature The nighttime data were then further analyzed to determine 90% 95% 99% prediction limits for the prediction of bridge deck and road temperatures based on the BDS and air temperature values Again the prediction limits for bridge and road temperatures using the BDS were generally

tighter than when using air temperature Finite element analyses FEA were performed for the nine sites using ALGOR V18 software to investigate the temperature behavior of the bridge deck and the BDS for the air temperature profiles reflecting extreme positive and negative temperature gradients recorded at each site The FEA modeling provided information about how the BDS and the bridge deck temperature change as a function of the air temperature and time Larger concrete cube sizes up to 24 in 61 cm on a side were investigated with FEA in an exploratory manner The 24 in 61 cm cube almost exactly matched the simulated bridge deck temperature profiles under a variety of air temperature loads The FEA temperature profiles showed that the existing BDS does not always closely represent the true temperature behavior of the bridge deck but that a concrete cube 4 times larger on a side would compare much better Yearly training of maintenance personnel in the use of the BDS and RWIS is recommended *Autodesk Inventor 2017 Basics Tutorial* Tutorial Books,2016-08-09 A step by step tutorial on Autodesk Inventor basics Autodesk Inventor is used by design professionals for 3D modeling generating 2D drawings finite element analysis mold design and other purposes This tutorial is aimed at novice users of Inventor and gives you all the basic information you need so you can get the essential skills to work in Autodesk Inventor immediately This book will get you started with basics of part modeling assembly modeling presentations and drawings Next it teaches you some intermediate level topics such as additional part modeling tools sheet metal modeling top down assembly feature assembly joints and dimension annotations Brief explanations practical examples and stepwise instructions make this tutorial complete Table of Contents Getting Started with Inventor 2017 Part Modeling Basics Assembly Basics Creating Drawings Additional Modeling Tools Sheet Metal Modeling Top Down Assembly and Motion Simulation Dimensions and Annotations

Mastering Autodesk Inventor and Autodesk Inventor LT 2011 Curtis Waguespack,Thom Tremblay,2010-07-28 Expert authors Curtis Waguespack and Thom Tremblay developed this detailed reference and tutorial with straightforward explanations real world examples and practical tutorials that focus squarely on teaching Inventor tips tricks and techniques The authors extensive experience across industries and their Inventor expertise allows them to teach the software in the context of real world workflows and work environments They present topics that are poorly documented elsewhere such as design tactics for large assemblies effective model design for different industries strategies for effective data and asset sharing across teams using 2D and 3D data from other CAD systems and improving designs by incorporating engineering principles Mastering Inventor 2011 begins with an overview of Inventor design concepts and application before exploring all aspects of part design including sketching basic and advanced modeling techniques working with sheet metal and part editing The book then looks at assemblies and subassemblies explaining real world workflows and offering extensive detail on working with large assemblies Weldment design is detailed next before the reader is introduced to the functional design using Design Accelerators and Design Calculators The detailed documentation chapter then covers everything from presentation files to simple animations to documentation for exploded views sheet metal flat patterns and more The following

chapters explore crucial productivity boosting tools data exchange the Frame Generator and the Inventor Studio visualization tools Finally the book explores Inventor Professional s dynamic simulation and stress analysis features as well as the routed systems features piping tubing cabling and harnesses Mastering Inventor s detailed discussions are reinforced with step by step tutorials and readers can compare their work to the downloadable before and after tutorial files It also features content to help readers pass the Inventor 2011 Certified Associate and Certified Professional exams and will feature instructor support materials appropriate for use in both the training and higher education channels Mastering Inventor is the ultimate resource for those who want to quickly become proficient with Autodesk s 3D manufacturing software and prepare for the Inventor certification exams

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