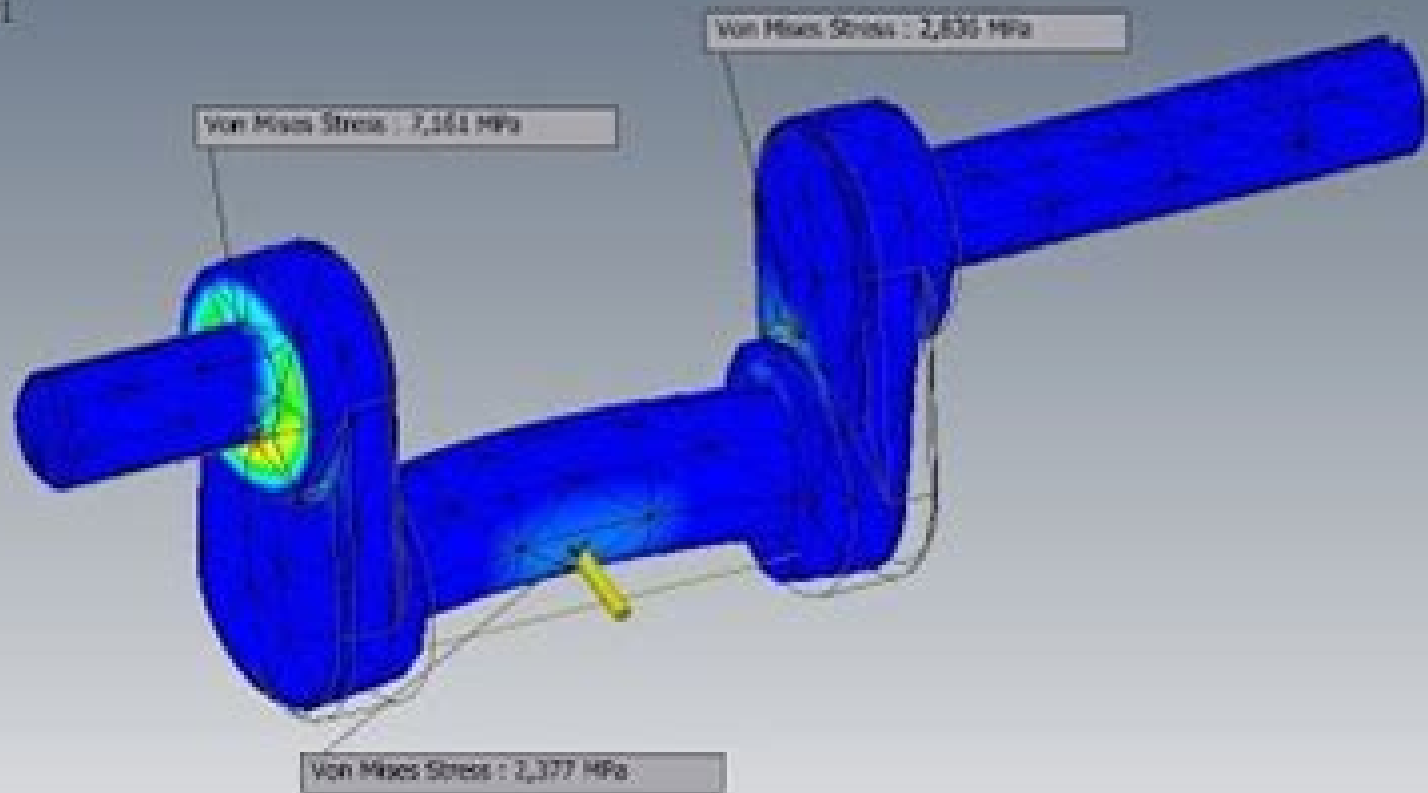
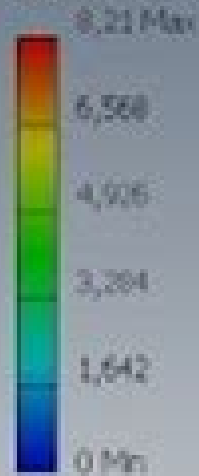


Nodes: 3109  
Elements: 1720  
Type: Von Mises Stress  
Unit: MPa  
16/09/2016, 01:46:21



# Autodesk Inventor Stress Analysis Tutorial

**Randy Shih**



## **Autodesk Inventor Stress Analysis Tutorial:**

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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

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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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Parametric Modeling with Autodesk Inventor 2021 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 to 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 2021 Certified User Examination Video Training Included with every new copy of this book is access to extensive video training The video training parallels the exercises found in the text and are designed to be watched first before following the instructions in the book However the videos do more than just provide you with click by click instructions Author Luke Jumper also includes a brief discussion of each tool as well as rich insight into why and how the tools are used Luke isn t just telling you what to do he s showing and explaining to you how to go through the exercises while providing

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