
Unigraphics Sheet Metal Tutorial

CATIA V5-6R2017 for Designers, 15th Edition

Mastering Autodesk Inventor 2014 and Autodesk Inventor LT 2014

Mechanical Engineering

Additive Manufacturing of Metals

Catia V5-6r2017

Mastering SolidWorks

NX 12 Tutorial

150 CAD Exercises

Cam Design Handbook

Datapro Directory of Microcomputer Software

The Software Encyclopedia

Nx 11.0 for Designers

Cnc Programming Handbook

Catia V5-6r2015 for Designers

SolidWorks For Dummies

Practical Finite Element Analysis

CATIA V5 - Design Process in Practise

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Siemens NX 2021 for Designers, 14th Edition

SOLIDWORKS SIMULATION 2017 BLACKBOOK.

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NASA Tech Briefs

CATIA V5 Design Fundamentals

Mastering CAD/CAM

Autodesk Inventor 2015 Tutorial

SolidWorks 2013 Tutorial

NX 12 Tutorial

Siemens Nx Exercises

Siemens NX 12.0 for Designers, 11th Edition

Parametric Modeling with NX 12

NX 9 Tutorial

Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016

Mastering Autodesk Inventor 2015 and Autodesk Inventor LT 2015 Autodesk Official

Press

Mold Design Using NX 11.0: A Tutorial Approach

Siemens NX 2019 for Designers, 12th Edition
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Machine Design
Precision Machine Design

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Sheet Metal
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STEWART SKINNER

CATIA V5-6R2017 for Designers, 15th Edition
CAD/CIM Technologies
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.

Mastering Autodesk Inventor 2014 and

Autodesk Inventor LT 2014 Society of Manufacturing Engineers
An Autodesk Official Press guide to the powerful mechanical design software Autodesk Inventor has been used to design everything from cars and airplanes to appliances and furniture. This comprehensive guide to Inventor and Inventor LT features real-world workflows and work environments, and is packed with practical tutorials that focus on teaching Inventor tips, tricks, and techniques.

Additionally, you can download datasets to jump in and practice on any exercise. This reference and tutorial explains key interface conventions, capabilities, tools, and techniques, including design concepts and application, parts design, assemblies and subassemblies, weldment design, and the use of Design Accelerators and Design Calculators. There's also detailed coverage of design tactics for large assemblies, effective model design for various industries,

strategies for effective data and asset sharing, using 2D and 3D data from other CAD systems, and improving designs by incorporating engineering principles. Uses real-world sample projects so you can quickly grasp the interface, tools, and processes Features detailed documentation on everything from project set up to simple animations and documentation for exploded views, sheet metal flat patterns, plastic part design, and more Covers crucial

productivity-boosting tools, iLogic, data exchange, the Frame Generator, Inventor Studio visualization tools, dynamic simulation and stress analysis features, and routed systems features Downloadable datasets let you jump into the step-by-step tutorials anywhere Mastering Autodesk Inventor and Autodesk Inventor LT is the essential, comprehensive training guide for this powerful software.
Mechanical Engineering
John Wiley & Sons

Note: Newer version for this book is available: CATIA V5 DESIGN FUNDAMENTALS - 2nd Edition -----
----- This textbook explains how to create solid models, assemblies and drawings using CATIA V5. CATIA is a three dimensional CAD/CAM/CAE software developed by Dassault Syst \diamond ms, France. This textbook is based on CATIA V5 Release 21. Users of earlier releases can use this book with minor modifications. We provide files for exercises

via our website. All files are in Release 19 so readers can open the files using later releases of CATIA V5. It is assumed that readers of this textbook have no prior experience in using CATIA V5 for modeling 3D parts. This textbook is suitable for anyone interested in learning 3D modeling using CATIA V5. Each chapter deals with the major functions of creating 3D features using simple examples and step by step self-paced exercises. Additional drawings of 3D parts are

provided at the end of each chapter for further self exercises. The final exercises are expected to be completed by readers who have fully understood the content and completed the exercises in each chapter. Topics covered in this textbook - Chapter 1: Basic component of CATIA V5 software, options and mouse operation. - Chapter 2: Basic step by step modeling process of CATIA V5. - Chapter 3 through 6: Creating sketches and sketch based features. - Chapter

7: Usage of reference elements to create complex 3D geometry. - Chapter 8: Dress-up features such as fillet, chamfer, draft and shell. - Chapter 9: Modification of 3D parts to take advantage of parametric modeling concepts. - Chapter 10: Creating complex 3D parts by creating multiple bodies and applying boolean operations. - Chapter 11: Copying or moving geometrical bodies. - Chapter 12 and 13: Constructing assembly structures and creating or

modifying 3D parts in the context of assembly. - Chapter 14 and 15: Creating drawings for parts or assemblies. - Chapter 16: Advanced functions in creating a solid part such as a rib, stiffener and multi-sections solid.

Additive Manufacturing of Metals McGraw-Hill Science, Engineering & Mathematics CATIA V5-6R2015 for Designers is a comprehensive textbook written with the intention of helping the readers effectively use all solid

modeling tools and other features of CATIA V5-6R2015. This textbook provides elaborative and clear explanation of the tools of all commonly used workbenches of CATIA V5-6R2015. After reading this textbook, you will be able to create, assemble, and draft models. The chapter on the DMU Kinematics workbench will enable the users to create, edit, simulate, and analyze different mechanisms dynamically. The chapter on the FreeStyle workbench will enable the

users to dynamically design and manipulate surfaces. The textbook explains the concepts through real-world examples and the tutorials used in this textbook ensure that the users can relate the knowledge gained from this textbook with the actual mechanical industry designs. In this edition, a chapter on Generative Shape Design has been added that explains mechanical engineering industry examples. Catia V5-6r2017 Packt

Publishing Ltd
 SIEMENS NX
 EXERCISES Do you want to learn how to design 2D and 3D models in your favorite Computer Aided Design (CAD) software such as NX or SolidWorks? Look no further. We have designed 200 CAD exercises that will help you to test your CAD skills. What's included in the SIEMENS NX EXERCISES book? Whether you are a beginner, intermediate, or an expert, these CAD exercises will challenge you. The book contains

200 3D models and practice drawings or exercises.*Each exercise contains images of the final design and exact measurements needed to create the design.*Each exercise can be designed on any CAD software which you desire. It can be done with AutoCAD, SolidWorks, Inventor, DraftSight, Fusion 360, Solid Edge, Catia, PTC Creo and other feature-based CAD modeling software.*It is intended to provide Drafters, Designers and Engineers with enough CAD

exercises for practice on NX.*It includes almost all types of exercises that are necessary to provide, clear, concise and systematic information required on industrial machine part drawings.*Third Angle Projection is intentionally used to familiarize Drafters, Designers and Engineers in Third Angle Projection to meet the expectation of worldwide Engineering drawing print.*This book is for Beginner, Intermediate and Advance CAD users.*Clear and well

drafted drawing help easy understanding of the design.*These exercises are from Basics to Advance level.*Each exercises can be assigned and designed separately.*No Exercise is a prerequisite for another. All dimensions are in mm.PrerequisiteTo design & develop models, you should have knowledge of NX. Student should have knowledge of Orthographic views and projections. Student should have basic knowledge of engineering drawings.

Mastering SolidWorks
Independently Published
The primary goal of Parametric Modeling with NX 12 is to introduce the aspects of designing with Solid Modeling and Parametric Modeling. This text is intended to be used as a practical training guide for students and professionals. This text uses NX 12 as the modeling tool, and the chapters proceed in a pedagogical fashion to guide you from constructing basic solid models to building intelligent mechanical

designs, creating multi-view drawings and assembly models. This text takes a hands-on, exercise-intensive approach to all the important Parametric Modeling techniques and concepts. This textbook contains a series of fourteen tutorial style lessons designed to introduce beginning CAD users to NX. This text is also helpful to NX users upgrading from a previous release of the software. The solid modeling techniques and concepts discussed in this text are

also applicable to other parametric feature-based CAD packages. The basic premise of this book is that the more designs you create using NX, the better you learn the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons. This book does not attempt to cover all of NX'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. This book also introduces you to the general principles of 3D printing including a brief history of 3D printing, the types of 3D printing technologies, commonly used filaments, and the basic procedure for printing a 3D model. 3D printing makes it easier than ever for anyone to start turning their designs into physical objects, and by the end of this book you will be ready to start printing out your own designs.

NX 12 Tutorial
Independently Published
Siemens NX 2021 for Designers is a comprehensive book that introduces the users to feature-based 3D parametric solid modeling using the NX software. The book covers all major environments of NX with a thorough explanation of all tools, options, and their applications to create real-world products. More than 40 mechanical engineering industry examples and additional 35 exercises given in the book ensure

that the users properly understand the solid modeling design techniques used in the industry and are able to efficiently create parts, assemblies, drawing views with bill of materials as well as learn the editing techniques that are essential to make a successful design. In this edition, four industry-specific projects are also provided for free download to the users to practice the tools learned and enhance their skills.

[150 CAD Exercises](#)
McGraw-Hill Professional

Publishing
NX 12 Tutorial is written to help new users to learn the basics of NX and some advanced solid modeling techniques. The Author guides readers through NX 12 with clear and step-by-step tutorials that help you to design solid models from day one. The first four chapters of this book cover the user interface, part modeling, assemblies, and drawings. After learning the basics, you can learn additional sketching tools, feature modeling tools, expressions, sheet metal

modeling, some advanced assembly techniques, drawing annotations, simulation basics, PMI, and rendering.

[Cam Design Handbook](#)
Serdar Hakan DÜZGÖREN
"History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908.

Datapro Directory of Microcomputer Software
Peachpit Press
Highlights of the book:
Discussion about all the

fields of Computer Aided Engineering, Finite Element Analysis Sharing of worldwide experience by more than 10 working professionals Emphasis on Practical usage and minimum mathematics Simple language, more than 1000 colour images International quality printing on specially imported paper Why this book has been written ... FEA is gaining popularity day by day & is a sought after dream career for mechanical engineers. Enthusiastic engineers and managers who want

to refresh or update the knowledge on FEA are encountered with volume of published books. Often professionals realize that they are not in touch with theoretical concepts as being pre-requisite and find it too mathematical and Hi-Fi. Many a times these books just end up being decoration in their book shelves ... All the authors of this book are from IITs & IISc and after joining the industry realized gap between university education and the practical FEA. Over the years they learned it

via interaction with experts from international community, sharing experience with each other and hard route of trial & error method. The basic aim of this book is to share the knowledge & practices used in the industry with experienced and in particular beginners so as to reduce the learning curve & avoid reinvention of the cycle. Emphasis is on simple language, practical usage, minimum mathematics & no pre-requisites. All basic concepts of engineering are included as & where it

is required. It is hoped that this book would be helpful to beginners, experienced users, managers, group leaders and as additional reading material for university courses.

The Software Encyclopedia SDC Publications

NX 10 Tutorial is written to help new users to learn the basics of NX and some advanced solid modeling techniques. The Author guides readers through NX 10 with clear and step-by-step tutorials that help you to design solid

models from day one. The first four chapters of this book cover the user interface, part modeling, assemblies, and drawings. After learning the basics, you can learn additional sketching tools, feature modeling tools, expressions, sheet metal modeling, some advanced assembly techniques, drawing annotations, and simulation basics. Table of Contents 1. Getting Started 2. Modeling Basics 3. Constructing Assembly 4. Generating Drawings 5. Sketching 6. Additional Modeling Tools 7. Top

Down Assembly 8. Dimensions and Annotations 9. Simulation Hands on Tutorial *Nx 11.0 for Designers* Online Instructor We all find ourselves wondering where we belong, no matter how we came into the world. Maybe our family isn't "family" in the traditional sense. Maybe our family doesn't match. Maybe our family looks nothing alike. No matter what family means to you, there is always a place you belong. Cnc Programming

Handbook John Wiley & Sons
 Mold Design Using NX 11.0: A Tutorial Approach
 book is written with the intention of helping the readers effectively design molds and its parts such as gate, runner, and various other standard parts using Mold Wizard of NX. After going through this book, the users will be able to design molds easily and effectively through processes such as analysis and documentation which have been dealt in detail. Also, the chapters in this

book are arranged in a pedagogical sequence that makes this book very effective in learning the features and capabilities of the software. Keeping in mind the requirements of the users, the book at first introduces basic terms and analyses and gradually progresses to cover sequential method to create mold and documentation. Written with the tutorial point of view and the learn by doing a theme, the book caters to the needs of both novice and advanced users and is ideally suited

for learning at your convenience and pace. Salient Features Consists of 10 chapters that are organized in a pedagogical sequence. Cover mold design concepts using NX 11.0. Tutorial approach to explain the concepts of Mold Design using NX 11.0. Summarized content on the first page of the topics that are covered in the chapter. Hundreds of illustrations for easy understanding of concepts. Step-by-step instructions to guide the users through the learning

process. Additional information throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge. Technical support by contacting techsupport@cadcim.com ' Additional learning resources at allaboutcadcam.blogspot.com' Table of Contents Chapter 1: Introduction to Mold Design and NX Mold Wizard Chapter 2: Part Analysis Chapter 3:

Creating Parting Surface Chapter 4: Creating Core and Cavity Chapter 5: Adding Mold Base and Standard Parts Chapter 6: Creating Gate, Runner, and Layout Chapter 7: Creating Sliders and Lifters Chapter 8: Creating Ejection and Cooling Systems Chapter 9: Creating Electrodes Chapter 10: Documentation Index [Catia V5-6r2015 for Designers](#) CADCIM Technologies Explore a practical and example-driven approach to understanding

SOLIDWORKS 2020 and achieving CSWA and CSWP certification Key FeaturesGain comprehensive insights into the core aspects of mechanical part modelingGet up to speed with generating assembly designs with both standard and advanced matesFocus on design practices for both 2D as well as 3D modeling and prepare to achieve CWSP and CWSA certificationBook Description SOLIDWORKS is the leading choice for 3D engineering and

product design applications across industries such as aviation, automobiles, and consumer product design. This book takes a practical approach to getting you up and running with SOLIDWORKS 2020. You'll start with the basics, exploring the software interface and working with drawing files. The book then guides you through topics such as sketching, building complex 3D models, generating dynamic and static assemblies, and

generating 2D engineering drawings to equip you for mechanical design projects. You'll also do practical exercises to get hands-on with creating sketches, 3D part models, assemblies, and drawings. To reinforce your understanding of SOLIDWORKS, the book is supplemented by downloadable files that will help you follow up with the concepts and exercises found in the book. By the end of this book, you'll have gained the skills you need to create professional 3D

mechanical models using SOLIDWORKS, and you'll be able to prepare effectively for the Certified SOLIDWORKS Associate (CSWA) and Certified SOLIDWORKS Professional (CSWP) exams. What you will learn Understand the fundamentals of SOLIDWORKS and parametric modeling Create professional 2D sketches as bases for 3D models using simple and advanced modeling techniques Use SOLIDWORKS drawing

tools to generate standard engineering drawingsEvaluate mass properties and materials for designing parts and assembliesUnderstand the objectives and the formats of the CSWA and CSWP examsDiscover expert tips and tricks to generate different part and assembly configurations for your mechanical designsWho this book is for This book is for aspiring engineers, designers, drafting technicians, or anyone looking to get started with the latest version of

SOLIDWORKS. Anyone interested in becoming a Certified SOLIDWORKS Associate (CSWA) or Certified SOLIDWORKS Professional (CSWP) will also find this book useful. *SolidWorks For Dummies* FINITE TO INFINITE Siemens NX 2019 for Designers is a comprehensive book that introduces the users to feature based 3D parametric solid modeling using the NX software. The book covers all major environments of NX with a thorough explanation of all tools, options, and

their applications to create real-world products. In this book, about 40 mechanical engineering industry examples are used as tutorials and an additional 35 as exercises to ensure that the users can relate their knowledge and understand the design techniques used in the industry to design a product. After reading the book, the user will be able to create parts, assemblies, drawing views with bill of materials, and learn the editing techniques that

are essential to make a successful design. Also, in this book, the author emphasizes on the solid modeling techniques that improve the productivity and efficiency of the user. Keeping in mind the requirements of the users, the book at first introduces sketching and part modeling in NX, and then gradually progresses to cover assembly, surfacing, and drafting. To make the users understand the concepts of Mold Design, a chapter on mold designing of the plastic components is

available in the book. In addition, a new chapter on basic concepts of GD&T has also been added in this book. Both these chapters are available for free download. Written with the tutorial point of view and the learn-by-doing theme, the book caters to the needs of both novice and advanced users of NX and is ideally suited for learning at your convenience and pace. Salient Features: Comprehensive coverage of NX concepts and techniques. Tutorial

approach to explain the concepts and tools of NX. Detailed explanation of all commands and tools. Hundreds of illustrations for easy understanding of concepts. Step-by-step instructions to guide the users through the learning process. More than 40 real-world mechanical engineering designs as tutorials, 35 as exercises, and projects with step-by-step explanation. Additional information throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the

end of each chapter to help the users assess their knowledge. Table of Contents Chapter 1: Introduction to NX Chapter 2: Drawing Sketches for Solid Models Chapter 3: Adding Geometric and Dimensional Constraints to Sketches Chapter 4: Editing, Extruding, and Revolving Sketches Chapter 5: Working with Datum Planes, Coordinate Systems, and Datum Axes Chapter 6: Advanced Modeling Tools-I Chapter 7: Advanced Modeling Tools-II Chapter 8:

Assembly Modeling-I Chapter 9: Assembly Modeling-II Chapter 10: Surface Modeling Chapter 11: Advanced Surface Modeling Chapter 12: Generating, Editing, and Dimensioning the Drawing Views Chapter 13: Synchronous Modeling Chapter 14: Sheet Metal Design Chapter 15: Introduction to Injection Mold Design (For Free Download) Chapter 16: Concepts of Geometric Dimensioning and Tolerancing (For Free Download) Index Practical Finite Element

Analysis CAD/CIM Technologies NX 12 Tutorial is written to help new users to learn the basics of NX and some advanced solid modeling techniques. The Author guides readers through NX 12 with clear and step-by-step tutorials that help you to design solid models from day one. The first four chapters of this book cover the user interface, part modeling, assemblies, and drawings. After learning the basics, you can learn additional sketching tools, feature modeling tools,

expressions, sheet metal modeling, some advanced assembly techniques, drawing annotations, simulation basics, product manufacturing information, and rendering.

CATIA V5 - Design Process in Practise John Wiley & Sons

Mastering SolidWorks: The Design Approach, Second Edition is entirely updated for SolidWorks 2014 and presents SolidWorks as a design system rather than a software program, using design, modeling, and drafting concepts as the

building blocks, instead of focusing on menus and commands. It describes design approaches, methodologies, and techniques to help CAD designers/engineers and draftspersons achieve their engineering tasks in the fastest, easiest, and most effective way. It develops command sequences to achieve CAD and modeling tasks, providing SolidWorks syntax and details. Starting with a CAD task to accomplish, the book then goes about how to accomplish it, motivating

students to learn more than simply going through layers of menus and commands. Intended for design courses, the book uses a minimal amount of mathematical concepts, covering basic math in Chapter 8 (Curves), Chapter 9 (Surfaces), and Chapter 13 (Analysis Tools). Intended for design courses, the book uses a minimal amount of mathematical concepts, covering basic math in Chapter 8 (Curves), Chapter 9 (Surfaces), and Chapter 13 (Analysis Tools). • Shows concepts

to those who are curious about how CAD/CAM systems work "under the hood." • Broadens the book appeal to many students, professors, and readers. • The coverage of math in chapters 8, 9, and 13 may be ignored without affecting the continuity of the material in those chapters. Step-by-Step instructions help students learn SolidWorks as a design system rather than a software program. • Ample illustrations guide students as they learn. Tutorials offer comprehensive coverage

of a full design task. • Each tutorial ends with a hands-on exercise that both challenges the student's understanding and extends it. Examples with Solutions cover a single concept in detail. • Each example offers a hands-on exercise that builds on the previous example, ensuring the student has gone through each example. Each chapter includes challenging modeling and design examples and problems. • The book's unique approach covers the theoretical concepts

behind the various functions of SolidWorks. • This sheds light about why things work the way they do, as well as explains their limitations and uses. *Learn SOLIDWORKS 2020* Springer Packed with hundreds of detailed illustrations! THE DEFINITIVE GUIDE TO CAM TECHNOLOGY! The transformation of a simple motion, such as rotation, into linear or other motion is accomplished by means of a cam -- two moving elements mounted on a fixed frame. Cam devices

are versatile -- almost any specified motion can be obtained. If you work with industrial applications where precision is essential, the "Cam Design Handbook" is a key resource you'll need handy at all times. You'll find thorough, detailed coverage of cams in industrial machinery, automotive optimization, and gadgets and inventions. Written with tremendous practical insight by engineering experts, the "Cam Design Handbook" gathers the information you need to

understand cam manufacture and design. Comprehensive in scope and authoritative in nature, the book delivers a firm grasp of: * The advantages of cams compared to other motion devices * Computer-aided design and manufacturing techniques * Numerical controls for manufacturing * Cam size and profile determination * Dynamics of high-speed systems Get comprehensive coverage of: * Basic curves * Profile geometry * Stresses and accuracy * Camwear life

predictions * Cam system dynamics * And more!
Now I Belong CreateSpace
 This engaging volume 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.

[Nx 10 Tutorial](#)

Createspace Independent Publishing Platform

This book is a comprehensive engineering exploration of all the aspects of precision machine design—both component and system design considerations for precision machines. It addresses both

theoretical analysis and practical implementation providing many real-world design case studies as well as numerous examples of existing components and their characteristics. Fast becoming a classic, this book includes examples of analysis techniques, along

with the philosophy of the solution method. It explores the physics of errors in machines and how such knowledge can be used to build an error budget for a machine, how error budgets can be used to design more accurate machines.