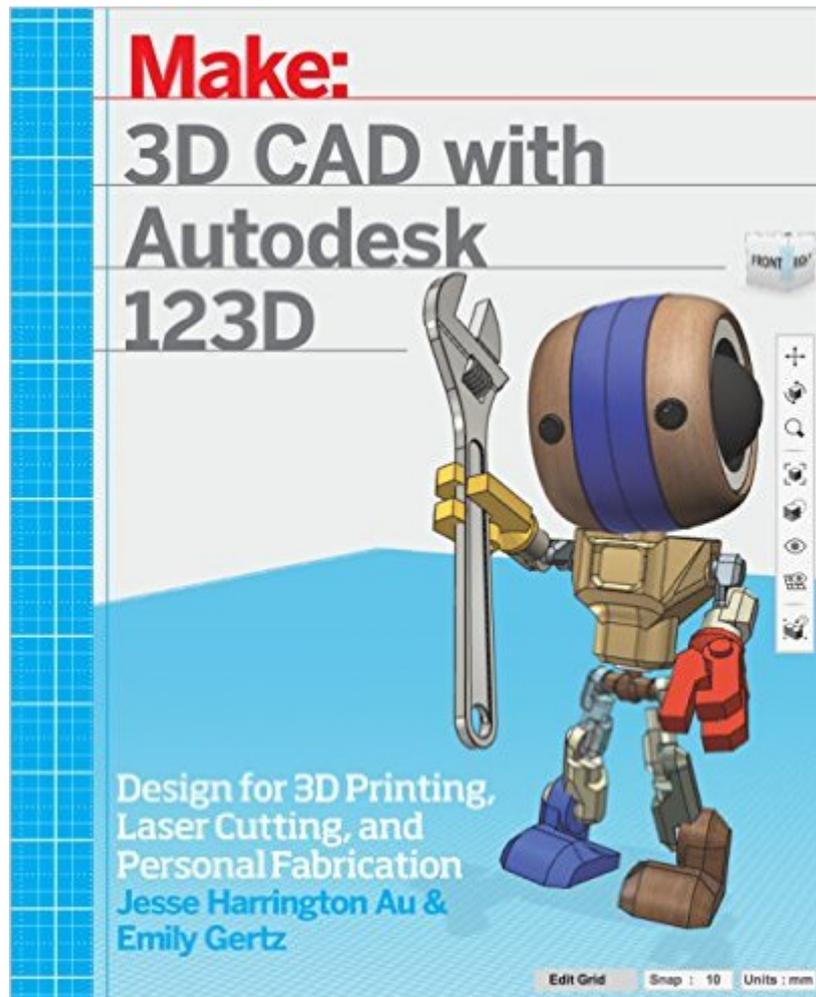# 3D CAD With Autodesk 123D: Designing For 3D Printing, Laser Cutting, And Personal Fabrication

Synopsis

If you've arrived at a stage in your creative life where you're ready to do more with your computer, it's time to learn how to combine its power with new advances in computer-aided design (CAD) and fabrication to make something awesome--in three dimensions! The free suite of Autodesk 123D software offers all the tools you need to capture or design three-dimensional objects and characters. This book tells you how to harness that power to print or fabricate just about anything you can imagine. Want to make something mechanical or structural that's based on precise measurements? 123D Design can help! Ready to create something cool based on a character, an organic shape, or something found in nature? 123D Catch, 123D Meshmixer, and 123D Sculpt+ will assist. Learn how to use these tools, plus 123D Make--perfect for prototyping designs you'll cut with a CNC mill--to take your creativity to a new level.An ideal book for Makers, hobbyists, students, artists, and designers (including beginners!), this book opens up the inexpensive world of personal fabrication to everyone.In 3D CAD with Autodesk 123D, youâ ™ll:Meet the classic "Stanford bunny" and learn to modify it with MeshmixerScan and 3D print anything around youDesign your own 3D-printed guitarFind models in the Sculpt+ community and make a skeleton!Build a birdhouse, prototype a playground, or create a statueLearn everything from basics to troubleshooting skillsGet started making right away

Book Information

Paperback: 118 pages

Publisher: Maker Media, Inc; 1 edition (January 24, 2016)

Language: English

ISBN-10: 1449343015

ISBN-13: 978-1449343019

Product Dimensions: 8 x 0.2 x 9.7 inches

Shipping Weight: 9.1 ounces (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 starsÂ Â See all reviewsÂ (10 customer reviews)

Best Sellers Rank: #122,616 in Books (See Top 100 in Books)   #7 inÂ Books > Computers & Technology > Graphics & Design > 3D Printing   #18 inÂ Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles   #34 inÂ Books > Computers & Technology > Hardware & DIY > Peripherals

Customer Reviews

Get Printing!   Author Jesse Harrington Au doesn't know what you're waiting for.

What is the best application for 123D?   It's best for designing things that fit inside your houseÃ¢Â Â"but not necessarily the house itself. It covers everything from using your phone to capture the world around you in printable 3D files to an easy-to-use 3D sculpting tool that can have you creating fantastical characters in minutes. It includes a solid basic modeling tool that teaches the foundation of all 3D design but is powerful enough to have made some successfully crowd-funded objects. The interface of these programs is built for the new learner, the person with passion who does not yet have the experience or the bank account to use a more complex software package. 123D keeps it simple, and in that simplicity you can make some extremely fun and beautiful objects.   What's the most exciting thing in the 3D design world?   There are a slew of great at-home 3D printers and 3D carvers on the market and they just keep getting better and more cost-effective all the time. So now you can literally think of an idea, design it, and make it in your own home or Makerspace within hours. This empowers people to create the objects in their life as opposed to purchasing something that may not be what they had hoped for. It also allows them to customize things to better suit their needs. And for young learners, there is nothing more powerful than being able to see your creations come alive. The understanding that happens when you go from inception to creation is something that cannot be taught in a classroom.   Keep Calm + Design On   Start today! Don't let a blank screen slow you down, borrow a design from 123dapp and start designing right now.   Be patient with yourself. It takes a lot to think in 3D; from a young age, we all learn everything in 2DÃ¢Â Â"reading, writing, and drawing. It may take some time to get your head around 3D. That's OK. Keep calm and design on.   If you don't have a printer, use a service bureau like 3D Hubs or Shapeways to print your parts.   Be a part of the community. Share your designs and give feedback on other people's designs. We can help each other grow together.

3D CAD with Autodesk 123D: Designing for 3D Printing, Laser Cutting, and Personal Fabrication Autodesk Fusion 360 Introduction to Parametric Modeling: Autodesk Authorized Publisher Autodesk Revit Architecture 2016 Essentials: Autodesk Official Press ISO/TR 11146-3:2004, Lasers and laser-related equipment - Test methods for laser beam widths, divergence angles and beam propagation ratios - Part 3: ... propagation and details of test methods ISO 11146-2:2005, Lasers and laser-related equipment - Test methods for laser beam widths, divergence angles and beam propagation ratios - Part 2: General astigmatic beams 3D Printing and CNC Fabrication with SketchUp Getting Started with CNC: Personal Digital Fabrication with Shapeoko and Other Computer-Controlled Routers (Make) Rotary Cutting Revolution: New One-Step Cutting, 8 Quilt

Blocks CAD for Fashion Design and Merchandising Colour printing. A practical Demonstration of Colour Printing by Letterpress, photo-offset, Lithography and Drawn Lithography with illustrations demonstrating alternative methods of production and including a comprehensive colour chart. Gelli Printing: Printing Without a Press on Paper and Fabric Printing by Hand: A Modern Guide to Printing with Handmade Stamps, Stencils, and Silk Screens How to Make Money with 3D Printing: Start Your Own 3D Printing Business in Less Than 30 Days Rigging Your Cinema Camera: A practical guide to product, cost, fabrication, assembly, and usage Micromirror Technology for Maskless Lithography: Dynamics, Control and Fabrication Ultraviolet nanoimprint lithography: Fabrication of ordered nanostructures, integrated optics and electronic devices Introduction to Microelectronic Fabrication: Volume 5 of Modular Series on Solid State Devices (2nd Edition) Complete Guide to Designing and Printing Fabric Microsoft SharePoint 2013 Designing and Architecting Solutions: Designing and Architecting Solutions Realistic Architectural Rendering with 3ds Max and mental -Ray (Autodesk Media and Entertainment Techniques)