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PRINT A DRINK is the 3D printing technology your next cocktail party needs. With it, a robot can inject liquid drops into drinks to form unique 3D patterns or designs.

The 3D printing revolution is well upon us, with new machines appearing at an amazing rate. With the abundance of information and options out there, how are makers to choose the 3D printer that's right for them? MAKE is here to help, with our Ultimate Guide to 3D Printing. With articles about techniques, freely available CAD packages, and comparisons of printers that are on the market, this book makes it easy to understand this complex and constantly-shifting topic. Based on articles and projects from MAKE's print and online publications, this book arms you with everything you need to know to understand the exciting but sometimes confusing world of 3D Printing.

Provides a guide to three-dimensional printers, covering such topics as how to choose the right printer, finding the appropriate software, and includes a showcase of printed projects.

Walks you through choosing and assembling a 3D printer kit, brainstorming and designing new objects with free software, and printing on your 3D printer.

With this book you will be empowered to design and build (or update) your own 3D printer. Covers essential topics including mechanical design, choosing the right components, customizing the firmware, fine-tuning your slicer and much more. Written in a clear and non-mathematical format, it will carry you through from start to finish.

An accessible introduction to 3D printing that outlines the additive manufacturing process, industrial and household markets, and emerging uses. The use of 3D printing—digitally controlled additive manufacturing—is growing rapidly. Consumer models of 3D printers allow people to fabricate small plastic objects, from cabinet knobs to wedding cake toppers. Industrial uses are becoming widespread, as businesses use the technology to fabricate prototypes, spare parts, custom-fitted prosthetics, and other plastic or metal items, often at lower cost and with greater efficiency than standard manufacturing. In this volume in the MIT Press Essential Knowledge series, John Jordan offers an accessible introduction to 3D printing, describing the printing process, industrial and household markets, and emerging uses. Jordan outlines the stages of 3D printing, from idea to software model to a printable file that slices the planned object into printable layers to the finished object itself. He describes additive technologies, consumer 3D printing in homes and schools, mass customization (which can create tens of millions of unique items), and industrial uses. Jordan explains that although 3D printers have not become the ubiquitous home appliance once predicted, they are making inroads into mass markets; and he discusses the business factors that may hinder industry adoption of 3D printing technologies. He considers the possible unintended consequences of 3D printing on jobs, as companies scramble to find employees with an uncommon skill set; on business models and supply chains, as manufacturing is decentralized;

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and on patent law, as machines can be programmed to copy protected property. Finally, Jordan looks at new and emerging uses, including bioprinting, building construction, and micromachines.

This book adopts a practical approach, with the use of step-by-step instructions to help guide readers. There are lots of screenshots covering each and every step needed to design a high-quality model in Blender for 3D printing. If you are a Blender user or someone who wants to use Blender to make 3D objects suitable for 3D printing, this book is ideal for you. You should already be comfortable with basic modeling in Blender - including using modifiers - although advanced skills are not required. All of the models that you will need are explored in-depth. This book does not assume that you will use any specific printer and teaches the general principles common to building models for most printers. It also gives you tips on discovering the requirements of the specific printer you will be using.

Printing in Plastic: Build Your Own 3D Printer is your gateway into the exciting world of personal fabrication. The “ printer ” that you'll build from this book is a personal fabricator capable of creating small parts and other objects from drops of molten plastic. Design a part using a modeling tool such as Google SketchUp. Then, watch while the fabricator head sweeps back and forth and upwards, depositing plastic in all the right places. You can build anything from a replacement tab to hold a bookshelf in place, to a small art project, to a bashguard for your bicycle. If you can conceive it and design it, you can build it, and you'll have fun doing it! Printing in Plastic is aimed at creative people comfortable using power tools such as a table saw, circular saw, and drill press. Authors James Kelly and Patrick Hood-Daniel lead you through building a personal fabrication machine based upon a set of blueprints downloaded from their website. Example projects get you started in designing and fabricating your own parts. Bring your handyman skills, and apply patience during the build process. You too can be the proud owner of a personal fabricator—a three-dimensional printer. Leads you through building a personal fabrication machine capable of creating small parts and objects from plastic Provides example projects to get you started on the road to designing and fabricating your own parts Provides an excellent parent/child, or small group project

Desktop or DIY 3D printers are devices you can either buy preassembled as a kit, or build from a collection of parts to design and print physical objects including replacement household parts, custom toys, and even art, science, or engineering projects. Maybe you have one, or maybe you're thinking about buying or building one. Practical 3D Printers takes you beyond how to build a 3D printer, to calibrating, customizing, and creating amazing models, including 3D printed text, a warship model, a robot platform, windup toys, and arcade-inspired alien invaders. You'll learn about the different types of personal 3D printers and how they work; from the MakerBot to the RepRap printers like the Huxley and Mendel, as well as the whiteAnt CNC featured in the Apress book Printing in Plastic. You'll discover how easy it is to find and design 3D models using web-based 3D modeling, and even how to create a 3D model from a 2D image. After learning the basics, this book will walk you through building multi-part models with a steampunk warship project, working with meshes to build your own action heroes, and creating an autonomous robot chassis. Finally, you'll find even more bonus projects to build, including wind-up walkers, faceted vases for the home, and a handful of useful upgrades to modify and improve your 3D printer.

Build four projects using Blender for 3D Printing, giving you all the information that you need to know to create high-quality 3D printed objects. About This Book A project based guide that helps you design beautiful 3D printing objects in Blender Use mesh modeling and

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intersections to make a custom architectural model of a house Create a real world 3D printed prosthetic hand with organic modeling and texturing painting Who This Book Is For If you're a designer, artist, hobbyist and new to the world of 3D printing, this is the book for you. Some basic knowledge of Blender and geometry will help, but is not essential. What You Will Learn Using standard shapes and making custom shapes with Bezier Curves Working with the Boolean, Mirror, and Array Modifiers Practicing Mesh Modeling tools such as Loop Cut and Slide and Extrude Streamlining work with Proportional Editing and Snap During Transform Creating Organic Shapes with the Subdivision Surface Modifier Adding Color with Materials and UV Maps Troubleshooting and Repairing 3D Models Checking your finished model for 3D printability In Detail Blender is an open-source modeling and animation program popular in the 3D printing community. 3D printing brings along different considerations than animation and virtual reality. This book walks you through four projects to learn using Blender for 3D Printing, giving you information that you need to know to create high-quality 3D printed objects. The book starts with two jewelry projects-- a pendant of a silhouette and a bracelet with custom text. We then explore architectural modeling as you learn to makes a figurine from photos of a home. The final project, a human hand, illustrates how Blender can be used for organic models and how colors can be added to the design. You will learn modeling for 3D printing with the help of these projects. Whether you plan to print at-home or use a service bureau, you'll start by understanding design requirements. The book begins with simple projects to get you started with 3D modeling basics and the tools available in Blender. As the book progresses, you'll get exposed to more robust mesh modeling techniques, modifiers, and Blender shortcuts. By the time you reach your final project, you'll be ready for organic modeling and learning how to add colors. In the final section, you'll learn how to check for and correct common modeling issues to ensure the 3D printer can make your idea a reality! Style and approach The profile pendant teaches background images, Bezier Curves, and Boolean Union. The Mirror Modifier, Boolean Difference, and Text objects are introduced with the coordinate bracelet. Mesh modeling, importing SVG files, and Boolean Intersection help make the house figurine. The human hand illustrates using the Subdivision Surface Modifier for organic shapes and adding color to your designs.

This improved second edition features twice the illustrations, a more readable format, and tons of additional information. Second Edition: 3D Printing is changing the way we think about design, distribution, and manufacturing. By bringing the factory to the desktop, this technology opens the door to a multitude of new opportunities, and challenges paradigms from the drawing board to the boardroom. Designing usable products for 3D printing poses some unique challenges, and blends the roles of designer and engineer. In Functional Design for 3D Printing, the author explains and instructs how to leverage the strengths and minimize the weaknesses of the 3D printing process. From material selection to design details that will tolerate the design-to-printing process, this book gives the reader the tools to transform their designs into durable, useful products that print reliably on a variety of machines. Functional Design for 3D Printing will help you to: - Minimize printing time, material use, and weight - Minimize the chance of print failure, on a variety of machines and software - Make interlocking / snap fit joints - Maximize strength for maximum utility - Make objects that flex without breaking - Incorporate multiple materials into your design for multi-extruder machines - Reduce stress concentrations for maximum durability - Solve bed adhesion issues in your design - Use the correct structural design paradigm, including mixed paradigms for maximum utility - Decide how and when to use support; when it is worth it to design support features into your model - Design objects to print in multiple materials or colors - Turn your design ideas into practical designs that print efficiently and assemble into a durable, functional object. Also included are many more practical details on the design process,

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including appendices on printing very thin, flexible structures, printer calibrations, structural strength, and more. If you are an experienced designer, Functional Design for 3D Printing will show you design practices that will help you to quickly create functional, printable objects well beyond what is possible with simple model-to-printing work-flows. If you are a novice designer, Functional Design for 3D Printing will be a useful supplement and reference, giving you the technical framework of functional design, helping you to progress from neophyte to high proficiency with a minimum of trial and error. Functional Design for 3D Printing covers the intersection of design, printing, and utility, enabling the reader to accelerate their path to creating high utility objects within 3D design and printing workflows. This volume will help you to incorporate design practices that open up the possibilities for durable, functional, printable objects that print quickly and reliably- delivering the full potential of the "desktop factory." 180 pages, 78 illustrations

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