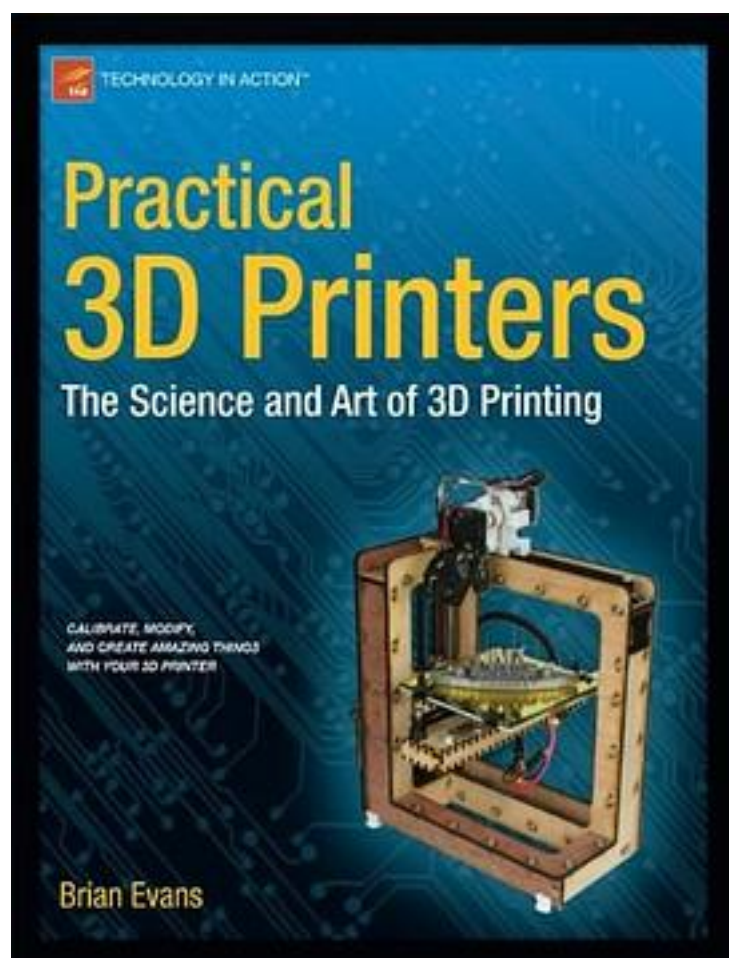# Practical 3D Printers

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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. What you'll learn * The various types of 3D printers, what they have in common, and what sets each one apart * The printer toolchain, including controllers and printer interfaces * The art of calibrating your printer * How to find and create 3D models to print, including using Google Sketchup * How to create multipart models and meshes * How to upgrade both the mechanical and electronic parts in your printer Who this book is for Electronics enthusiasts, tinkerers, artists, and everyone who wants to use their 3D printer to do more than make more 3D printers. Table of Contents Ch. 1: A World of 3D Printers Ch. 2: 3D Printer Toolchain Ch. 3: Calibrating Your Printer Ch. 4: 3D Models From The Cloud Ch. 5: 3D Haiku Ch. 6: Steampunk Warship Ch. 7: Action Hero Mashups Ch. 8: Mini Sumo Projetcs Ch. 9: Bonus Round 1: More Projects Ch. 10: Bonus Round 2: Upgrades Appendix A: Printing Tips Appendix B: Resources

作者介绍:

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标签

3D打印

3D

计算机科学

计算机技术

美国

Printing

Printers

Practical

评论

快速翻过，看起来3D打印的效果没想象中好啊，只能做小玩具了

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书评

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