

3D Printing with RepRap Cookbook

By Richard Salinas

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3D Printing with RepRap Cookbook By Richard Salinas

Over 80 fast-paced recipes to help you create and print 3D models

About This Book

- Master the most difficult printing techniques
- Create models with easy solutions for 3D printing
- Know how to choose the best slicer for the right job
- Easy-to-use recipes for optimizing 3D models for 3D printing and printing process

Who This Book Is For

This book is for novice designers and artists who own a RepRap-based 3D printer, have fundamental knowledge of its working, and who desire to gain better mastery of the printing process. For the more experienced user, it will provide a handy visual resource, with side-by-side comparisons of the two most popular slicers, Skeinforge and Slic3r.

A basic understanding of designing and modeling principles and elementary knowledge of digital modeling would be a plus.

What You Will Learn

- Use the 123D Catch program to 3D scan common objects of almost any size for 3D printing
- Manipulate the surface mesh of a 3D model using Meshmixer v9001, the 3D modeling program
- Clean up your scans and stitch them together to make a solid model using MeshLab v1.3.2
- Calibrate 3D models using SketchUp v13, a 3D CAD program for precision fabrication
- Master the controls of the two most popular slicers, Skeinforge and Slic3r
- Learn how to add textures to your models and avoid undesirable texture through calibration

In Detail

Do-it-yourself 3D printing is a new and exciting technology that gives you the power to make extraordinary things that were previously impossible. 3D printing provides great savings on assembly costs as it offers the capability of printing already assembled products.

This book is a concise guide to creating 3D models and for mastering the skills of 3D printing through a series of easy-to-follow recipes. It covers the detailed process of 3D printing using RepRap machines along with some fundamental 3D printing techniques such as 3D scanning, parametric modeling, and digital fabrication.

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Editorial Review

About the Author

Richard Salinas

Richard Salinas is a scenic artist in the film industry, where he has worked for over 20 years on numerous television and motion picture productions. He was educated at the University of Missouri where he studied sculpture and three-dimensional design. He also has a formal education in the field of electronics. He developed an interest in computers in 1981 when he began programming on his university's mainframe and one of the first affordable personal computers: the Commodore VIC-20. Since 2012, he's constructed five 3D printers of various designs and hacks. His aim is to explore the possibilities of creating fine art sculpture with DIY technology. You can follow his progress at www.3dprintedsculpture.com.

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