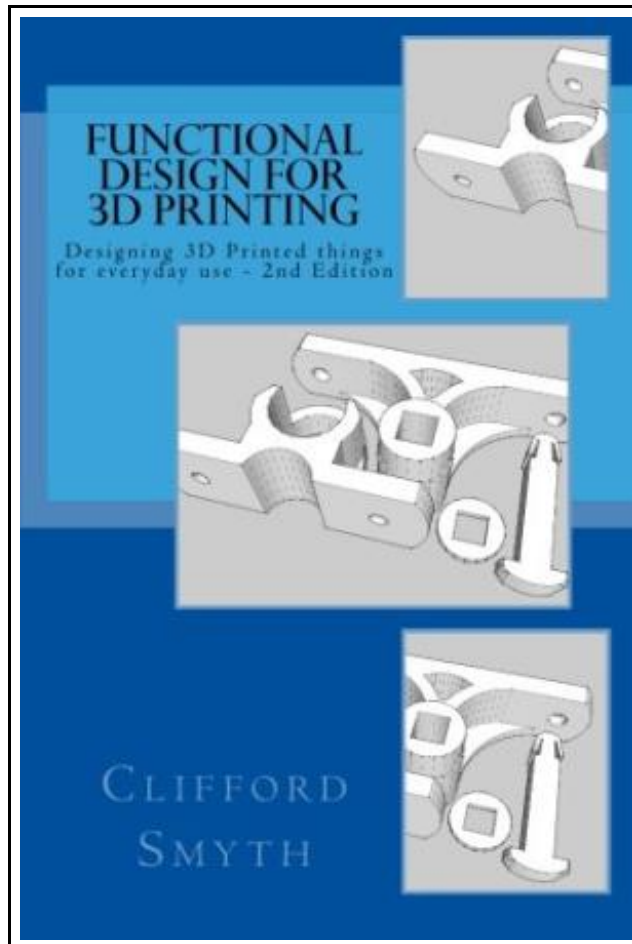


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Reviews

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(Dr. Teagan Beahan Sr.)

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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.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...



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