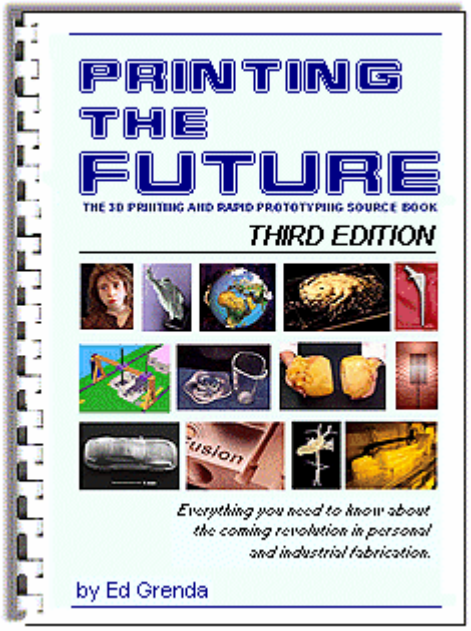
PRINTING THE FUTURE

THE 3D PRINTING AND RAPID PROTOTYPING SOURCE BOOK

by Ed Grenda

In a world that's knee-deep in books about additive fabrication, there's only one that's the most thorough, up-to-date and easy-to-read...



This is it.

Hundreds of thousands of people have read this book over the last ten years. The diagrams, tables and text have been the basis for scores of presentations, magazine articles and handbook chapters by authors all over the world. That's because much of the central material is derived from the tutorial and commercial sections of The **Worldwide Guide to Rapid Prototyping** web-site. This new **THIRD EDITION** reflects the numerous changes and advancements that have occurred since the publication underwent its last major revision just a year ago.

PRINTING THE FUTURE describes the enormous range of applications under development and their very great potential to affect all our lives in unforeseen ways. Numerous case studies are included that place special emphasis on applications outside the realm of engineering. These thought-provoking examples will provide a source of inspiration to help you determine if additive technologies can help you now or in the future.

3D printing is beginning to be used to manufacture parts and products of every description and kind without limit to complexity. It's poised for major growth as individuals from all walks of life become more familiar with additive fabrication and apply it to an ever-widening range of problems. **PRINTING THE FUTURE** is the easiest and least expensive way to gain that familiarity.

This thorough book includes 240 illustrations and 20 tables, and is more than 230 pages in length. It's written in non-technical language for general readers and includes a comprehensive glossary and index. The confusing terminology of the field is completely demystified and revealed. The Appendix also provides an extensive directory of the most important industry resources, including addresses, phone numbers and web sites for virtually every organization mentioned in the text. The oversized 8.5 x 11 inch page format contains more information than a standard size book of more than 480 pages. In short, you'll get more bang for your book buck than you can any place else - and we guarantee it.

Money Back Guarantee

You can't lose. If you're not convinced that **PRINTING THE FUTURE** is a great value and will be a valuable reference for years to come, you can return the book for a full refund, less shipping - no questions asked.

View the complete Table of Contents, Index and sample text at:

http://home.att.net/~castleisland/pr_bk01.htm

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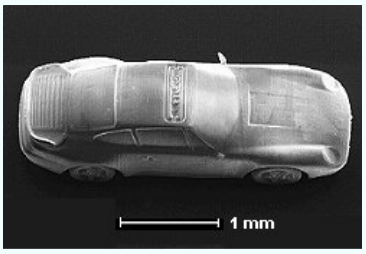

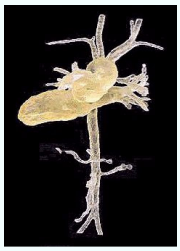




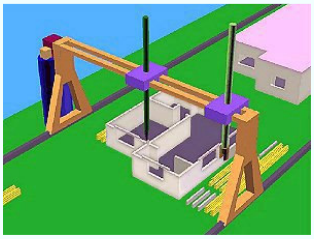

PRINTING THE FUTURE *Demystifies 3D Printing!*

3D printing and rapid prototyping are names given to a group of related technologies that are used to fabricate physical objects directly from CAD data. These methods are unique in that they add and bond materials in layers to form objects or parts. They offer powerful advantages in many applications compared to more established subtractive fabrication machines such as millers or lathes:

- Objects can be formed with any geometric complexity or intricacy without the need for elaborate machine setup or final assembly.
- Objects can be made from multiple materials, or as composites, or materials can even be varied in a controlled fashion at any location in an object.
- The fabrication of complex objects is reduced to a manageable, straightforward, and relatively fast process.

Today's systems are heavily used by engineers to better understand and communicate their product designs, as well as to make tooling to manufacture those products, and to reduce the time to get them to market. Surgeons, architects, artists and individuals from many other disciplines also routinely use the technology.

Recent improvements in machinery and materials, as well as rapidly decreasing prices are overcoming many additional barriers. Additive fabrication is now finding its way into the mainstream across a broad spectrum of applications.

Rapid manufacturing - the use of the technology to directly make products - will have a profound impact on nearly all facets of people's lives.

Distributed manufacturing using these methods will allow parts and products to be made directly at the point of use and in the exact quantity required. Parts may be manufactured at the location of the final assembly line, or at a distribution site, on a ship at sea or in outer space. It will soon be possible to economically make just a single unit of a product. Individual consumers will be able to design or specify products created especially for themselves. Such mass customization holds the potential to have as large an impact as mass production did a hundred years ago.

There is no doubt that 3D printing will be used in the not too distant future to manufacture parts and products of every description and kind without limit to complexity. Additive fabrication is poised for major growth as individuals from all walks of life become more familiar with it and apply it to an ever-widening range of problems.