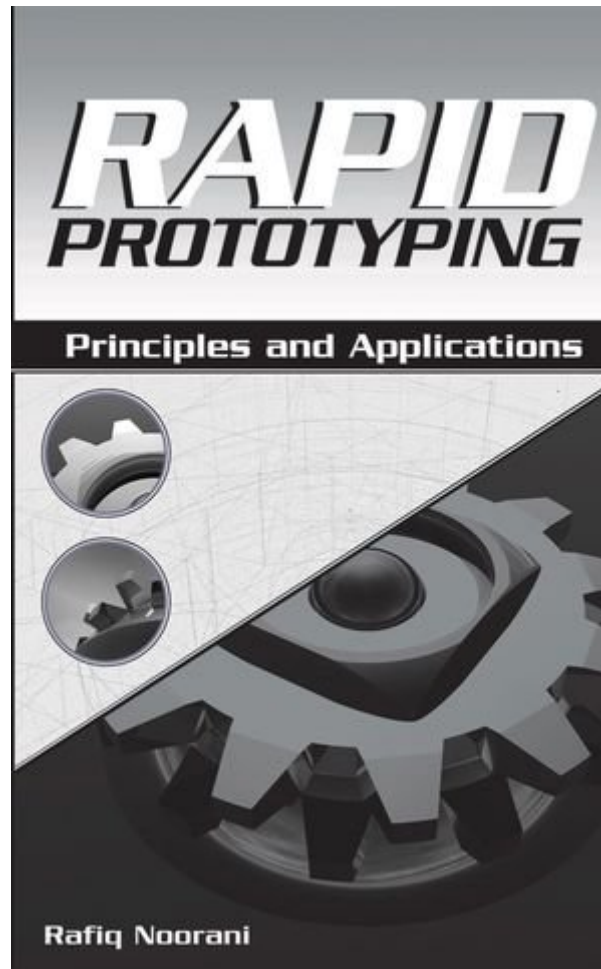


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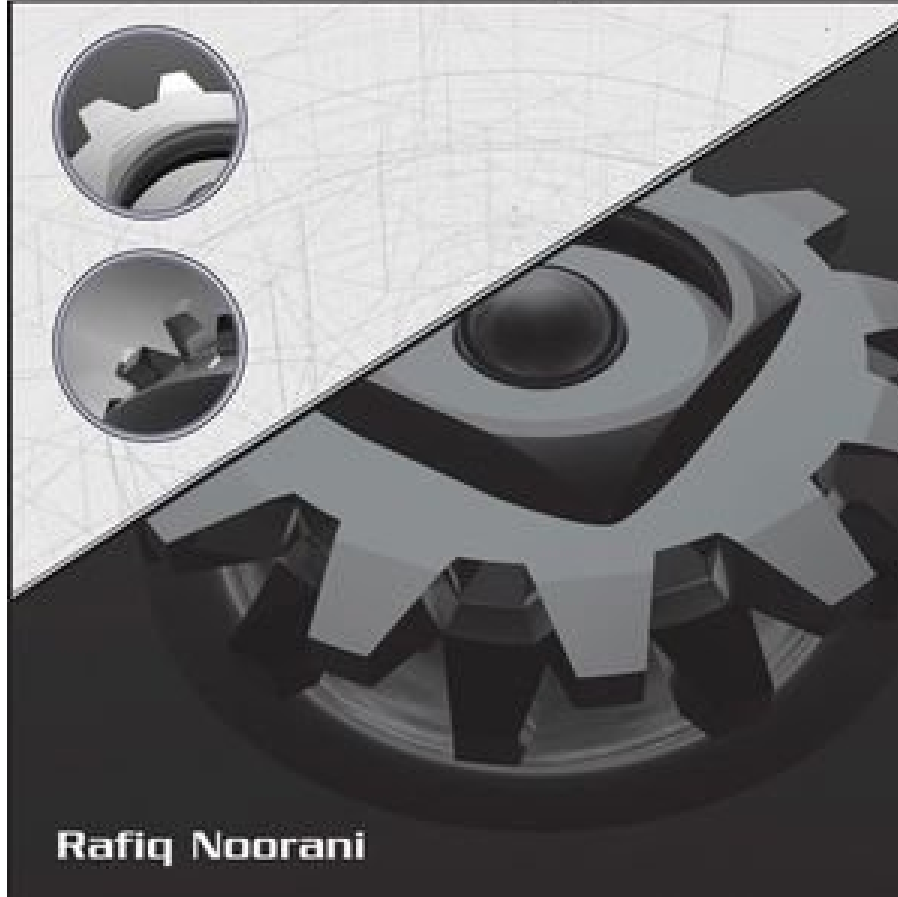


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Principles and Applications



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From the Back Cover

Rapid prototyping is a faster, more cost-effective method for building prototypes from three-dimensional computer-aided design (CAD) drawings. Rapid Prototyping provides a fundamental overview of the general manufacturing process and presents the principles and applications of designing and fabricating parts in a format that makes learning easy. This user-friendly text clearly covers the rapid prototyping process for students and can also be used as a reference in a new product design and process development.

Packed with real-world problems and case studies, Rapid Prototyping features:

- Basic information on layered manufacturing processes, the essential vocabulary to be conversant in nomenclature and widely recognized acronyms, and numerous review exercises
- A full section of applications to stimulate both discussion and outside research on the ever-expanding arena of rapid prototyping applications
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About the Author

RAFIQ NOORANI, PhD, is a professor in the Department of Mechanical Engineering at Loyola Marymount University in Los Angeles, California.

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Most helpful customer reviews

2 of 2 people found the following review helpful.

Seems to have been written in a hurry

By Lungfish

Well, there is quite a lot of useful information in this book. However, it is not well written or well structured. Some specific problems are as follows.

Chapters 3, 4 and 5 (amounting to nearly 100 pages) that review specific systems for Liquid-, Solid- and Powder-Base RP systems, respectively, present a survey of proprietary systems. Unfortunately, very much of the text here is directly cut and paste from the websites of the companies that produce those systems. The results of this include very much repetition (since there are many instances of the same text being provided on the web sites for different models by each manufacturer, together with some really quite useless descriptive terms such as 'hardness, flatness, and smooth surface finish', 'ease of installation', 'ease of finish', 'fast, efficient and economical', etc. etc.. Unfortunately, without numbers all of these descriptions amount to nothing more than vague marketing hype and this should not be present in an academic text written by a professor in mechanical engineering. One would expect much more objective descriptions, an more overall processing and restructuring of the information to avoid so much repetition.

On a similar note, there are very many references to Wohlers report on RP. I really wonder if the cut and paste materials from manufacturers websites, and the Wohlers derived content, were taken out of the book, how much shorter would it be?

The introductory chapter provides brief summary material for each process that makes the later, more detailed chapters seem quite repetitive.

The chapter on materials for RP is quite good, apart from a persistent error in giving densities in mg/m^3 . Hence we are told that the density of copper (for example) is $8.94 \text{ mg}/\text{m}^3$. In fact this is the density in g/cm^3 .

Finally, the exercises and problems would, I believe, be difficult for students to complete if this book were the only resource available.

The overall impression left by these deficiencies is that the book has been rushed out. It would be nice to see a future edition without the cut and paste material and with more careful thought, analysis and data given instead of the vague qualitative terms used by marketing departments.

1 of 1 people found the following review helpful.

Excellent introductory textbook on rapid prototyping

By Vladimir Mironov

Rafiq Noorani made a perfect job by creating introductory book on rapid prototyping and he used very effectively his unique 25 years experience in teaching rapid prototyping. It is well organized, carefully systematized, elegantly written, richly illustrated introductory textbook on rapid prototyping. This book is very easy to read to newcomers and non-specialists. All specific terminology are well defined and carefully explained. It provides all necessary information for newcomers. Chapters about medical applications and new technologies are especially interesting. Reference material provides practically all necessary information and

contact addresses. Carefully formulated questions in the end of every chapter represents an excellent didactic material for teaching and self-control. Author not just loves his subject but somehow he "transduces" his love to rapid prototyping technology to reader. Excellent job. It is one of the best introductory textbook on rapid prototyping. Highly recommended for students and everybody who is interested in this amazing technology.

Highly recommended. This book deserves special award. Introduction of color illustrations in second edition could make this excellent book even better.

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