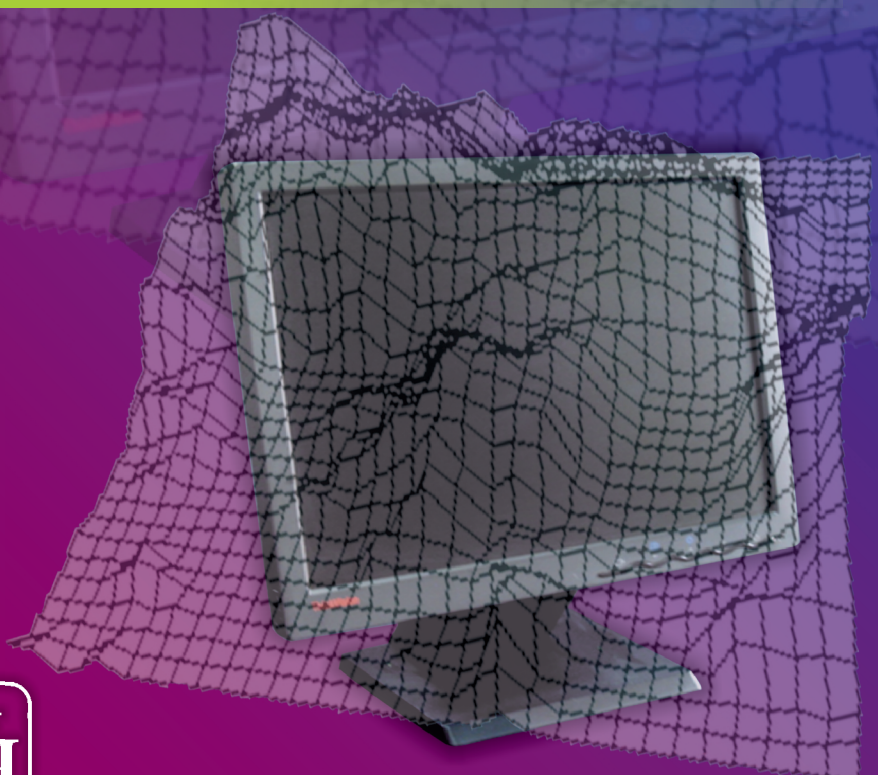
Eastern Economy Edition

# Computer Graphics

Apurva A. Desai



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# COMPUTER GRAPHICS

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**PHI Learning Private Limited**
New Delhi-110001
2008

**COMPUTER GRAPHICS**
Apurva A. Desai

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*Dedicated to*
*Sources of my Inspiration*
*and my Strengths*

*My Loving Father*
Late Shri Arunbhai
*My Caring Mother*
Smt. Kokilaben
*My Loving and Caring Wife*
Sejal
*My Charming and Sparkling Son*
Smit
*And of course my Parents-in-Law*
Shri Navinbhai and Smt. Ranjanben

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# FOREWORD

In the current Information age, knowledge of fundamental graphics and suitable programming methodologies plays a crucial role in designing and developing high quality software. Market is teeming with books, manuals, aids, etc. authored by both foreign and Indian experts. However, due to continuous changes taking place in the field of computer science, people keep looking for new developments for improving the quality of teaching and learning methodologies.

For the past one decade or more, Computer Graphics is being viewed as the heart and soul of visual programming because of its applications to several areas such as entertainment, advertising, education, training, multimedia, etc. We, being in the computer education, are always on the lookout for a book that caters to the needs of the Indian students for learning the subject right from fundamentals to the latest developments in professional graphics.

*Computer Graphics* by Professor Apurva A. Desai has come at an appropriate time to meet the present demand.

The book in itself is very well designed, content-wise as well as presentation-wise, and includes a range of aspects of computer graphics, which need attention. Touching upon the historical and progressing to most modern aspects, this text on computer graphics is a good guide for the students as well as the instructors.

The book covers all the essential and conceivable aspects of computer graphics. It amply illustrates Prof. Desai's in-depth understanding of the subject and speaks well of his vast experience in teaching and research in computer applications.

The target groups would be the students of B.E./B.Tech., M.E./M.Tech., and the M.Sc. students pursuing courses in the disciplines of Computer Science and Information Technology, as well as the students of BCA and MCA courses.

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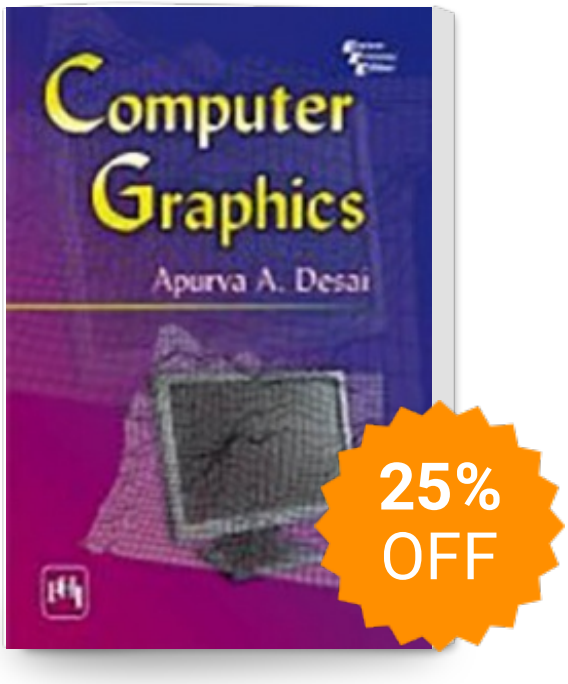


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