

Computing in Scilab

Scilab is free and open-source for numerical computation. It gives a powerful computing environment for engineering and scientific applications including numerical analysis, data analysis, algorithm development, and application development. It was released in 1994 and since then it has been continuously used across the globe with around 100,000 monthly downloads. Scilab has grabbed a lot of attention in recent years because of its free availability and MATLAB-like features.

While focusing on the curriculum requirements of undergraduate students in physics and electronics, *Computing in Scilab* caters to a wide audience including undergraduate students in chemistry, computer science and mathematics too. In this book, advanced physical problems have been solved by making Scilab programs and wherever necessary, sufficient background theory of these problems is also given. The book is written in an easy-to-understand language and in the style of classroom teaching. Illustrations, diagrams, and graphs will definitely make learning more interesting and easier. This book has an extensive coverage and it primarily focuses on applications of Scilab in improving the problem-solving skills of the reader.

Key Features

- Coverage as per UGC's CBCS–LOCF syllabus
- Physical interpretation of complex calculations and results using mathematical and computational tools for enhanced comprehension
- Use of descriptive approach to explain the concepts, including step-by-step derivations, diagrams, graphs, and examples
- Application-based examples for better understanding of concepts
- Practice exercises at the end of each chapter for sharpening coding skills

Chetana Jain is Professor of Physics at Hansraj College, University of Delhi. She obtained her graduation and post-graduation degree in Physics from Hansraj College, University of Delhi. She has obtained her doctorate degree from the Department of Physics and Astrophysics, University of Delhi. Her main area of research is astrophysics. She has authored several research papers in various national and international journals of repute. She has written a well-appreciated undergraduate book, *Principles of Electromagnetic Theory*. You may reach the author at: drchetanajain11@gmail.com.

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Chetana Jain



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