



Introduction to Scientific Visualization

By Helen Wright

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This is a 'how to' book for scientific visualization. It is treated as a subject in its own right. SciViz has not been covered in an approachable form (other than in compilations of research papers) since Brodlie's seminal work in 1992.

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Introduction to Scientific Visualization By Helen Wright Bibliography

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Editorial Review

Review

From the reviews:

"Wright, after an overview of the field, presents the basics of color, provides an exemplary taxonomy of visualization techniques . . . the book also contains a bibliography, references, solutions to exercises, a list of useful Web sites, common abbreviations, a glossary, and a comprehensive index. . . all the visualization techniques are lucidly described, with clear . . . examples, corresponding charts, and color plates. . . Readers looking for a short and accessible introduction to visualization techniques can't go wrong with Wright's book." (D. Spinellis, ACM Computing Reviews, September, 2008)

From the Back Cover

Scientific visualization is recognised as important for understanding data, whether measured, sensed remotely or calculated. *Introduction to Scientific Visualization* is aimed at readers who are new to the subject, either students taking an advanced option at undergraduate level or postgraduates wishing to visualize some specific data.

An introductory chapter on the philosophy of the subject sets the scene, showing why visualization works and what to aim for when presenting scientific data visually. Then, extending and applying Brodlie's taxonomy to underpin its core chapters, the book shows how to classify data, choose a technique that's appropriate for its visualization, and alerts readers to some of the pitfalls before they can invalidate their conclusions. The book concludes with an annotated bibliography and suggestions for further reading.

Above all, this is a 'how to do it' book for scientific visualization, with:

- Discussion of the different types of software architecture for visualization
- Introduction to the theory of colour perception and the role of colour in conveying information about data
- Comprehensive illustrations throughout
- Exercises and problems to encourage further learning
- Virtual laboratories available from Springer's website for those readers with access to the IRIS Explorer package

Dr. Helen Wright is a Senior Lecturer in the Computer Science department at the University of Hull. She has many years experience teaching scientific visualization to undergraduates and postgraduates, and the material used in this book has been tested through successive taught courses.

Users Review

From reader reviews:

Bethany Archie:

This book untitled Introduction to Scientific Visualization to be one of several books which best seller in this

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