



Introduction to Graph Theory (5th Edition)

By Robin J. Wilson

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In recent years graph theory has emerged as a subject in its own right, as well as being an important mathematical tool in such diverse subjects as operational research, chemistry, sociology and genetics. Robin Wilson's book has been widely used as a text for undergraduate courses in mathematics, computer science and economics, and as a readable introduction to the subject for non-mathematicians.

The opening chapters provide a basic foundation course, containing definitions and examples, connectedness, Eulerian and Hamiltonian paths and cycles, and trees, with a range of applications. This is followed by two chapters on planar graphs and colouring, with special reference to the four-colour theorem. The next chapter deals with transversal theory and connectivity, with applications to network flows. A final chapter on matroid theory ties together material from earlier chapters, and an appendix discusses algorithms and their efficiency.

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Introduction to Graph Theory (5th Edition) By Robin J. Wilson Bibliography

- Sales Rank: #1088596 in Books
- Brand: imusti
- Published on: 2012-10-14
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .50" w x 6.20" l, .66 pounds
- Binding: Paperback
- 192 pages

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Editorial Review

From the Back Cover

Introduction to Graph Theory

5th edition

'An excellent introduction on an increasingly popular topic'

G. Jones, University of Southampton

'If this book did not exist, it would be necessary to invent it!'

B. Cooper, University of Leeds

'I have always regarded Wilson's book as THE undergraduate textbook on graph theory, without a rival'

D. Sharpe, University of Sheffield

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For this new edition the text has been revised throughout, and several sections have been reorganised and renumbered. Some new material has been added – notably on the proof of the four-colour theorem, the bracing of rectangular frameworks and algorithms – and the number of exercises has been increased and more solutions are provided.

Robin Wilson is Emeritus Professor of Pure Mathematics at the Open University, and Emeritus Professor of Geometry at Gresham College, London. He is also a former Fellow in Mathematics at Keble College, Oxford University, and now teaches at Pembroke College. He has written and edited almost 40 books on graph theory, combinatorics, the history of mathematics, and music, and is very involved with the communication and popularisation of mathematics.

About the Author

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