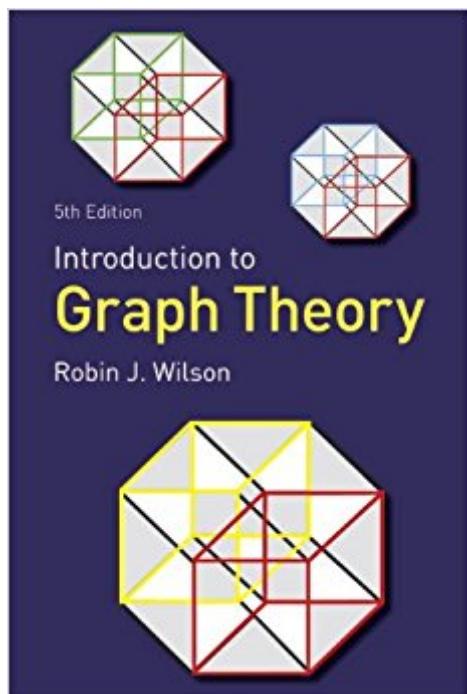The book was found

# Introduction To Graph Theory (5th Edition)

## Synopsis

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&#146;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.

## Book Information

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## Customer Reviews

Introduction to Graph Theory  5th edition Â  &#145;An excellent introduction on an increasingly popular topic&#146;  G. Jones, University of Southampton  Â  ’If this book did not exist, it would be necessary to invent it!’  B. Cooper, University of Leeds Â   ’I have always regarded Wilson’s book as THE undergraduate textbook on graph theory, without a rival’  D. Sharpe, University of Sheffield Â 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&#146;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. For this new edition the text has been revised throughout, and several sections have been reorganised and renumbered. Some new material has been added &#150; notably on the proof of the four-colour theorem, the bracing of rectangular frameworks and algorithms &#150; and the number of exercises has been increased and more solutions are provided.Â   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 almostÂ 40 books on graph theory, combinatorics, the history of mathematics, and music, and is very involved with the communication and popularisation of mathematics.

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"Loved it" is a strong classification but it is a high-quality, college-level introduction to graph theory. I found the course and text highly interesting and this text help immeasurably.

The book is informative. While it's not easy to understand, it contains a lot of information, and it makes me think deeper.

A lot of stuff is not motivated well, and too much stuff is thrown in everywhere for a very cohesive book. With that said, the proofs usually have a good amount of explanation contained (e.g. the author will slightly talk through steps in more involved proofs) and there are a huge number of exercises for each chapter. It's a good book, but tries to cover too much IMO. Would be better if the scope was narrowed a bit.

The shipping and everything was quick and well packaged. The book came in a neat condition even though it wasn't brand new. I'm doing my research on Graph Theory and I have to admit that this book is extremely helpful in learning the basics of Graphs. I found it extremely easy to comprehend and uh the exercises helped me understand the topic in depth.

Very well-written textbook. I've never studied graph theory before. I am not majoring in Mathematics, though. However, Although the textbook surely need for us to think more and to draw on notes myself for understanding, I strongly recommend beginners choose this book, definitely.

A comprehensive and detailed book that is a must for people wanting to get into graph theory. The examples in the book are challenging and help students analyze graph theory creatively, too.The company worked well with me and got the product on time..

The book is well written. The book is best used if the lecturer teaching the class explains certain aspect a bit more then the book does. The book is written for graduate students and not undergrad. As an undergrad I had trouble but that comes with understanding any thing new for the first.

An excellent book on graph theory. Very detailed, and a little over my head at this point, but I'm sure it'll be fully intelligible by the end of my class.

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