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# A Concise Introduction to Pure Mathematics, Third Edition (Chapman Hall/CRC Mathematics)

By Martin Liebeck



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The third edition of this popular text contains three new chapters that provide an introduction to mathematical analysis. These new chapters introduce the ideas of limits of sequences and continuous functions as well as several interesting applications, such as the use of the intermediate value theorem to prove the existence of  $n^{\text{th}}$  roots. This edition also includes solutions to all of the odd-numbered exercises.

By carefully explaining various topics in analysis, geometry, number theory, and combinatorics, this textbook illustrates the power and beauty of basic mathematical concepts. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher level mathematics, enabling students to study further courses in abstract algebra and analysis.



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### Review

It would in fact be difficult to find in this excellent book three consecutive pages that do not contain material useful to students or practitioners. ... A diligent, active reader of this outstanding book will have the best foundation at minimum cost for making meaningful contributions to mathematics, science, or engineering.  
?Computing Reviews, November 2011

Now in an updated and expanded third edition, **A Concise Introduction to Pure Mathematics** provides an informed and informative presentation into a representative selection of fundamental ideas in mathematics ... . Of special note is the inclusion of solutions to all of the odd-numbered exercises. An ideal, accessible, elegant, student-friendly, and highly recommended choice for classroom textbooks for high school and college level mathematics curriculums, **A Concise Introduction to Pure Mathematics** is further enhanced with a selective bibliography, an index of symbols, and a comprehensive index.  
?Library Bookwatch, December 2010

This book displays a unique combination of lightness and rigor, leavened with the right dose of humor. When I used it for a course, students could not get enough, and I have been recommending independent study from it to students wishing to take a core course in analysis without having taken the prerequisite course. The material is very well chosen and arranged, and teaching from Liebeck's book has in many different ways been among my most rewarding teaching experiences during the last decades.  
?Boris Hasselblatt, Tufts University, Medford, Massachusetts, USA

In addition to preparing students to go on in mathematics, it is also a wonderful choice for a student who will not necessarily go on in mathematics but wants a gentle but fascinating introduction into the culture of mathematics. ... This book will give a student the understanding to go on in further courses in abstract algebra and analysis. The notion of a proof will no longer be foreign, but also mathematics will not be viewed as some abstract black box. At the very least, the student will have an appreciation of mathematics. As usual, Liebeck's writing style is clear and easy to read. This is a book that could be read by a student on his or her own. There is a wide selection of problems ranging from routine to quite challenging.  
?From the Foreword by Robert Guralnick, University of Southern California, Los Angeles, USA

### **Praise for Previous Editions:**

The book will continue to serve well as a transitional course to rigorous mathematics and as an introduction to the mathematical world ... .  
?Gerald A. Heuer, *Zentralblatt MATH*, 2009

...a pleasure to read ... a very welcome and highly accessible book.  
?Michael Ward, *The Mathematical Gazette*, March 2007

### About the Author

**Martin Liebeck** is a professor and head of the Pure Mathematics Section in the Department of Mathematics at Imperial College London. He earned his B.A., M.Sc., and D.Phil. in mathematics from the University of

Oxford. Dr. Liebeck has published over 100 research articles and seven books. His research interests encompass algebraic groups, finite simple groups, probabilistic group theory, permutation groups, and algebraic combinatorics.

## **Users Review**

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