

Order your
Inspection Copy now

Other Essential Textbooks in
this area from Cambridge

CAMBRIDGE

You may request an inspection copy of a textbook via the web, email, fax, or post:



www.cambridge.org/textbooks



inspectioncopy@cambridge.org



fax +44 (0)1223 326111



Please complete this form and return it to:
**The Academic TB Dept, Cambridge University Press,
Cambridge CB2 2RU, UK**

Title

ISBN

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

First Name Surname

Department

Academic Institution

Address

Postcode Country

Email address

Course Name(s)

Level Number of Students

Course Date Local Bookseller(s)

Our inspection copy policy

In the UK, Australia and New Zealand books are sent out for a maximum of 28 days, after which they must be returned or paid for if they are not adopted for a course of 12 or more students. Outside the UK, Australia and New Zealand, inspection copies are sent as desk copies free of charge. Not all titles are available for inspection in all countries. Lecturers must complete and return the **Reply Slip** enclosed with each book. Books not yet published will be sent in the month of publication.

Purchasing Copies

Should you wish to purchase copies of this book, you can do so online via our website at www.cambridge.org/order or by phone +44 (0) 1223 326050, fax +44 (0) 1223 326111, or email directcustserve@cambridge.org. When ordering, please quote the catalogue code.

Catalogue code: 36583

Calculus

Concepts and Methods

Ken Binmore, *University College London*
Joan Davies, *London School of Economics*

'The book is excellent! The presentation and layout [are] clear and the examples, exercises and worked solutions are very helpful.'

E. J. Parkes, *University of Strathclyde*

For more information see
<http://books.cambridge.org/0521775418.htm>

2002 246 x 189 mm 568pp 649 line diagrams 345 exercises
0 521 77541 8 Paperback £25.95

Applied Complex Variables for Scientists and Engineers

Yue Kuen Kwok *Hong Kong University of Science and Technology*

Perfectly suited to students wishing to learn the elements of complex analysis in an applied context. For scientists, engineers, and mathematicians.

For more information see
<http://books.cambridge.org/0521004624.htm>

2002 228 x 152 mm 384pp 300 exercises 88 figures
0 521 00462 4 Paperback £19.95



CAMBRIDGE
UNIVERSITY PRESS
www.cambridge.org

ISBN 0-521-97052-0

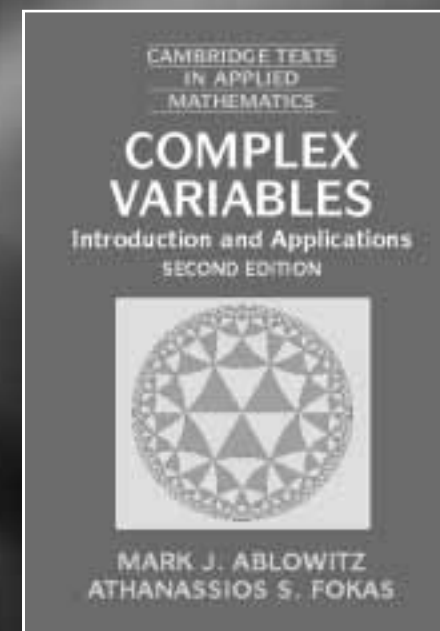


Printed in the United Kingdom
at the University Press, Cambridge

September 2003

Complex Variables

Second edition



Mark J. Ablowitz
and
Athanassios S. Fokas

Order your inspection copy now
www.cambridge.org/textbooks

Cambridge Textbooks
... all your students need to know

- Contains a vast selection of examples and exercises
- Useful reference for experts as well as a text for students
- Extremely polished presentation in this new edition

Reviews of the first edition:

' ... the quality of the print is really first rate and the narration is measured, well reasoned, rigorous and nicely layed out ... the book in total constitutes a very good resource for teachers of, and researchers in, this particular area of mathematics.'

Peter Larcombe, *Mathematics Today*

New Edition

Complex Variables

Introduction and Applications

Second edition

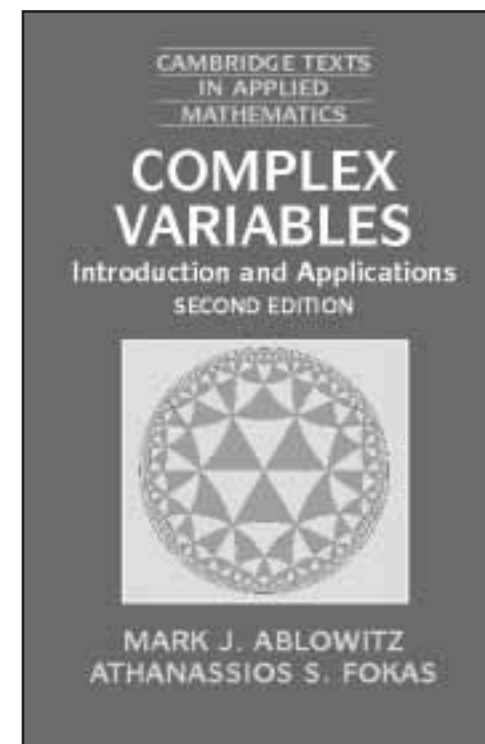
Mark J. Ablowitz, *University of Colorado, Boulder*
and Athanassios S. Fokas, *University of Cambridge*

Complex variables provide powerful methods for attacking problems that can be very difficult to solve in any other way, and it is the aim of this book to provide a thorough grounding in these methods and their application. Part I of this text provides an introduction to the subject, including analytic functions, integration, series, and residue calculus and also includes transform methods, ODEs in the complex plane, and numerical methods. Part II contains conformal mappings, asymptotic expansions, and the study of Riemann–Hilbert problems. The authors provide an extensive array of applications, illustrative examples and homework exercises. This new edition has been improved throughout and is ideal for use in undergraduate and introductory graduate level courses in complex variables.

Contents

Part I: 1. Complex numbers and elementary functions; 2. Analytic functions and integration; 3. Sequences, series and singularities of complex functions; 4. Residue calculus and applications of contour integration; Part II: 5. Conformal mapping and applications; 6. Asymptotic evaluation of integrals; 7. Riemann–Hilbert problems; Index.

Cambridge Texts in Applied Mathematics, 35



<http://books.cambridge.org/0521534291.htm>

2003 660 pages 160 line diagrams 350 exercises
0 521 53429 1 Paperback £29.95

order your inspection copy now 

' ... an excellent text, and one of the most complete and well-written books on complex variables I have seen ... The index is nicely composed, complete, and accurate ... useful as a reference ... I highly recommend it to anyone interested in the subject and have placed it prominently upon my reference bookshelf.'

Duwayne Anderson, *Optics and Photonics News*