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applications of this method. A new unified formulation of general crack problems is presented by integro-differential equations.
The book will serve as a valuable guide for engineers, researchers, academics and postgraduate students of all engineering disciplines.
A. Portela

Environment Assisted Fatigue. Edited by P. Scott & R.A. Cottis, E.G.F. Publication 7, Mechanical Engineering Publications Limited, London, 1990. £91.00. ISBN: 0 85298 737 4

Environment Assisted Fatigue, is the Proceedings of a Conference held at Sheffield University, UK. The book includes 30 papers on the investigation of corrosion fatigue and as such is an important and welcome contribution to the literature.
The book is divided into six sections covering corrosion fatigue of welded joints, long cracks in steel, corrosion behaviour of aluminium alloys, corrosion fatigue endurance of short crack growth, corrosion fatigue at high temperatures and interactions with stress corrosion cracking.
The book will be of interest to mechanical engineers, metallurgists and chemists working in environmental assisted fatigue.

Chebyshev Polynomials-From Approximation Theory to Algebra and Number Theory. 2nd edition. Theodore J. Rivlin, John Wiley & Sons Limited, 1990. pp. 249, hardcover. £45.50.
ISBN: 0-471-62896-4

'The Chebyshev potential is like a fine jewel that reveals different characteristics under illumination from varying positions.'
This is how Theodore J. Rivlin introduces the Chebyshev polynomials. The book starts by defining the 'jewel' giving a survey of the most important properties of the Chebyshev polynomials, and then moves to explore the *'varying position'* introducing the reader to various areas of mathematical analysis, by means of the Chebyshev polynomials, like interpolation theory, orthogonal polynomials, approximation theory, numerical integration, numerical analysis, ergodic theory and others.
This second edition of the book also contains new material in the form of improved text and added exercises, plus a new chapter on elementary algebraic and theoretic properties of the Chebyshev potentials.
The book is not an encyclopedia about Chebyshev potentials and the author does not claim so, but is still one of the best reference texts available on the subject written in a *'reader friendly'* tone to make it accessible to a large community of scientists.
The reviewer would strongly recommend the book to both the non-mathematical minded researcher who will find it enjoyable to read, and to the mathematician who will find it very challenging in many aspects.
The book can also be used as a text book for graduate students in applied and pure mathematics.
A. Charafi

Advanced Engineering Mathematics. 5th edition. C.R. Wylie & L.C. Barret, McGraw-Hill, 1988. pp. 1103, paperback.
ISBN: 0-07 Y66643 1

This edition of the well known Wylie & Barret's book is updated to provide an introduction to post calculus mathematics demanded by analytical engineers and physicists.
The overall structure of the book is as follows. The first ten chapters deal with ordinary differential equations. The next four chapters are devoted to the related areas of linear algebra, vector analysis and calculus of variations. The last four chapters deal with the theory and applications of functions of a complex variable.
The analytical solution of ordinary differential equations and systems of equations are covered in Chapters 1–4, with applications. Chapter 5 deals with finite differences and the usual applications to interpolation and integration and step by step solution of differential equations.
Fourier series and Fourier integrals are discussed in Chapters 6 and 7 and provide an introduction to the Laplace transformation discussed in Chapter 8. The next two chapters deals with partial differential equations and boundary value problems, respectively.
In the second part of the book, Chapters 11 and 12 discuss vector spaces, linear transformations, the existence of Green's functions, eigenvalues and eigenvectors, followed by a chapter in vector analysis. Chapter 14 deals with calculus of variations and its application to dynamics.
The theory of function of a complex variable is covered in the third part of the book, with applications to fluid mechanics and two-dimensional potential theory, stability criteria, conformal mapping and others.
The book is a comprehensive source in applied mathematics with a clear and detailed presentation.
P. Sollero

Handbook of Applied Mathematics. Selected Results and Methods, 2nd edition. Edited by Carl E. Pearson, Van Nostrand Reinhold, 1990. pp. 1307.
ISBN: 0442 005210