

The Colours of Infinity

The Mathematics of Roughness

The groundbreaking documentary accompanying this book (visit Extras.Springer.com) is presented by Arthur C Clarke with music by David Gilmour of Pink Floyd. Introduced fifteen years ago, this brought the subject of fractals to the attention of the general public for the first time; since then it has been shown in over fifty countries around the world.

Contributors to the film are joined by other leading experts in this latest edition of 'The Colours of Infinity', a comprehensive survey of fractal theory and practice. Incorporating an additional chapter on the money markets by the fractal master himself, Professor Benoît Mandelbrot, the documentary has also been re-mastered providing exquisite new fractal animations. A must read for anyone with an interest in the 'beauty and power of fractals'.

THE CONTRIBUTORS

Arthur C. Clarke is the world's most prophetic and most prolific writer of science fiction, much of which has become science fact.

Professor Benoît Mandelbrot is Stirling Professor of Mathematics at Yale University. He is world renowned for discovering the Mandelbrot Set and for the development of fractal geometry.

Professor Michael Barnsley is Professor at the National Australian University in Canberra, where he specialises in researching fractal geometry. He co-founded Iterated Systems Inc. in 1987, which later licensed fractal image compression technology to Microsoft.

Gary Flake is a leading researcher in web analysis and modelling, and is President of Yahoo! Labs in California.

David Gilmour of Pink Floyd provided the beautiful and wholly appropriate score for the film 'The Colours of Infinity'.

Nigel Lesmoir-Gordon produced and directed the original documentary. He has been an independent film and documentary maker since the 1960s. He is the co-author of 'Introducing Fractals' with Will Rood and Ralph Edney and is currently investigating the educational applications of fractal geometry.

David Pennock is a senior research scientist at Yahoo! He has taken out a number of patents relating to electronic commerce and the web, and his research has received significant attention.

Will Rood discovered fractals in 1984, only to realise that Mandelbrot knew about them ten years earlier! Having graduated in pure mathematics at Cambridge, Will now writes software and makes videos and films. He collaborated on the film of 'The Colours of Infinity'.

Emeritus Professor Ian Stewart was Professor of Mathematics at Warwick University and Director of the Mathematics Awareness Centre. He has written over 60 books including *Does God Play Dice?*

THE COLOURS OF INFINITY

Lesmoir-Gordon



The Colours of Infinity

The Beauty and Power of Fractals

Edited by **Nigel Lesmoir-Gordon**
featuring **Arthur C Clarke,**
Benoît Mandelbrot
and **Ian Stewart**

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