



# Sound Synthesis and Sampling (Music Technology)

By Martin Russ

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## Sound Synthesis and Sampling (Music Technology) By Martin Russ

Sound Synthesis and Sampling provides a comprehensive introduction to the underlying principles and practical techniques applied to both commercial and research sound synthesizers. This second edition has been rigorously updated throughout and includes a new chapter on performance, examining how synthesizers have become embedded within more sophisticated musical performance instruments.

Martin Russ' highly readable and non-mathematical approach makes the subject accessible whatever your level of experience. The book features:

- Detailed illustrations to aid your understanding
- Topics presented in bite-size sections within each chapter
- Additional notes in the margin to reinforce important points
- Examples of representative instruments and software
- Time lines showing the development of a topic in its historical context
- Questions at the end of each chapter for checking your comprehension
- A glossary for quick reference
- A jargon guide to demystify the varied terminology

As such, the book is particularly suitable for students of music technology, audio engineering, acoustics, electronics and related courses. Musicians, engineers and multimedia specialists will also want to keep a copy to hand for reference.

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### Editorial Review

#### Review

Reviews of previous edition:

"This is a very good book on the subject. It is detailed enough for the more interested student and easy enough for the average student."

Lecturer (course: Electronic Music), USA

"...A very good starting point for studying this particular subject."

Customer review, Amazon.co.uk

"...I really love this book. It is so well written, enjoyable and informative. There is no maths and everything is explained in a simple fashion."

Customer review, Amazon.com

"This book will help you on your way. A little history, not much math but a lot of help. If you intend to follow this path give this book a read!"

Customer review, Amazon.com

"The author does a fine job of presenting an extraordinary amount of material - you will learn real, in-depth background about acoustics and synthesis techniques. I find myself constantly referring to this book when I am in my studio."

Customer review, Amazon.com

"I bought this book when I first started on my Music Technology degree... I'm now just finishing my final year project, and I have to tell you... this book has been a fantastic help."

Customer review, Amazon.com

"...provides an excellent technical and historical overview of sound synthesis methods in a non-mathematical way."

Computer Music Journal

#### From the Publisher

Written in an almost entirely non-mathematical fashion, and extensively illustrated with clear diagrams, this book will make an ideal reference for students of music technology, audio engineering and acoustics, music enthusiasts, musicians, engineers, and multimedia specialists. Questions are provided at the ends of chapters for revision purposes, and a substantial glossary explains a wide range of related terms. Time-lines show key events in the history of synthesis and examples are given of commercial products that employ the technology described.

#### About the Author

The author, Martin Russ, is a writer for Sound on Sound magazine and has been a synthesizer specialist for many years. The series editor, Francis Rumsey, is Senior Lecturer in music and sound recording at the University of Surrey.

## **Users Review**

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