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## AN INTRODUCTION TO MUSIC TECHNOLOGY, SECOND EDITION

DAN HOSKEN

New York: Routledge, 2015.

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Dan Hosken explores the myriad of ways in which technology can be implemented in the practices of composers, performers and teachers. This introductory text spans a large group of topics covered in a comprehensive and accessible way. The volume is divided into four sections: Sound, Audio, MIDI and Software Instruments and Computer Notation and Computer-Assisted Instruction. Included are also two appendices, covering Computer Hardware and Computer Software. Each of the main sections is preceded by an overview text summarising the key issues discussed.

Hosken argues that principles of music technology should be analysed in the context of practical work, and throughout the text he provides suggested activities, complementing the core content. The importance of aural experiences is also emphasised and the book is presented with a companion website featuring audio examples relevant to the covered topics. The website is up to date and provides a large collection of resources, such as audio examples, YouTube videos and URLs to relevant online content. The online component is a helpful expansion of the material covered in the book and allows dissemination of various types of information conveniently gathered in one place, which is practical in a teaching environment.

Hosken is pragmatic in his approach and prioritises the importance of the presented material to students operating in the contemporary music production landscape. An example of this method is the choice of topics for the appendices. The decision to include the discussion on computer hardware and software in the appendices was dictated by the fact that, while important, these topics are intuitively understood by current generations of students who grew up with computer technologies. While a good understanding of the fundamental knowledge related to computer hardware and software is very helpful in troubleshooting of the technical problems as well as the efficient day-to-day work with music technology, the priority in the volume is given to sound-related topics, which is a sensible choice.

The second edition of the book, reviewed here, sees a restructure of some of the content as well as new additions. Section three MIDI and Software Instruments now includes chapters on synthesis and sampling, which in the first edition of the book were presented

# An Introduction To Music Technology

**John Paul Edward Harper-Scott, Jim  
Samson**



## **An Introduction To Music Technology:**

**An Introduction to Music Technology** Dan Hosken, 2014-08-01 *An Introduction to Music Technology* Second Edition provides a clear overview of the essential elements of music technology for today's musician. This book focuses on the topics that underlie the hardware and software in use today: Sound, Audio, MIDI, Computer Notation, and Computer Assisted Instruction. Appendices cover necessary computer hardware and software concepts. Written for both music technology majors and non-majors, this textbook introduces fundamental principles and practices so students can learn to work with a wide range of software programs, adapt to new music technologies, and apply music technology in their performance, composition, teaching, and analysis. Features: Thorough explanations of key topics in music technology; Content applicable to all software and hardware, not linked to just one piece of software or gear; In-depth discussion of digital audio topics such as sampling rates, resolutions, and file formats; Explanations of standard audio plug-ins including dynamics processors, EQs, and delay-based effects; Coverage of synthesis and sampling in software instruments; Pedagogical features including Further Reading sections that allow the student to delve deeper into topics of interest; Suggested Activities that can be carried out with a variety of different programs; Key Terms at the end of each chapter; What Do I Need? Chapters covering the types of hardware and software needed in order to put together Audio and MIDI systems; A companion website with links to audio examples that demonstrate various concepts; step-by-step tutorials; relevant hardware, software, and additional audio and video resources. The new edition has been fully updated to cover new technologies that have emerged since the first edition, including iOS and mobile platforms, online notation software, alternate controllers, and Open Sound Control (OSC).

*An Introduction to Music Technology* Daniel William Hosken, 2011. This is a college textbook for an introductory course in music technology. This text discusses the software, hardware, and networking features of a computer. Each section includes suggested assignments that will reinforce the key concepts from each section as well as encourage real-world application of these techniques.

**An Introduction to Music Technology** Dan Hosken, 2015 *An Introduction to Music Technology* Second Edition provides a clear overview of the essential elements of music technology for today's musician. This book focuses on the topics that underlie the hardware and software in use today: Sound, Audio, MIDI, Computer Notation, and Computer Assisted Instruction. Appendices cover necessary computer hardware and software concepts. Written for both music technology majors and non-majors, this textbook introduces fundamental principles and practices so students can learn to work with a wide range of software programs, adapt to new music technologies, and apply music technology in their performance, composition, teaching, and analysis. Features: Thorough explanations of key topics in music technology; Content applicable to all software and hardware, not linked to just one piece of software or gear; In-depth discussion of digital audio topics such as sampling rates, resolutions, and file formats; Explanations of standard audio plug-ins including dynamics processors, EQs, and delay-based effects; Coverage of synthesis and sampling in software instruments; Pedagogical features including Further Reading sections that

allow the student to delve deeper into topics of interest Suggested Activities that can be carried out with a variety of different programs Key Terms at the end of each chapter What Do I Need Chapters covering the types of hardware and software needed in order to put together Audio and MIDI systems A companion website with links to audio examples that demonstrate various concepts step by step tutorials relevant hardware software and additional audio and video resources The new edition has been fully updated to cover new technologies that have emerged since the first edition including iOS and mobile platforms online notation software alternate controllers and Open Sound Control OSC

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*Music Technology and the Project Studio* Dan Hosken, 2012-03-15 Music Technology and the Project Studio Synthesis and Sampling provides clear explanations of synthesis and sampling techniques and how to use them effectively and creatively Starting with analog style synthesis as a basic model this textbook explores in detail how messages from a MIDI controller or sequencer are used to control elements of a synthesizer to create rich dynamic sound Since samplers and sample players are also common in today's software the book explores the details of sampling and the control of sampled instruments with MIDI messages This book is not limited to any specific software and is general enough to apply to many different software instruments Overviews of sound and digital audio provide students with a set of common concepts used throughout the text and Technically Speaking sidebars offer detailed explanations of advanced technical concepts preparing students for future studies in sound synthesis Music Technology and the Project Studio

Synthesis and Sampling is an ideal follow up to the author's *An Introduction to Music Technology* although each book can be used independently. The Companion Website includes Audio examples demonstrating synthesis and sampling techniques. Interactive software that allows the reader to experiment with various synthesis techniques. Guides relating the material in the book to various software synthesizers and samplers. Links to relevant resources, examples and software.

**An Introduction to Music Studies** John Paul Edward Harper-Scott, Jim Samson, 2009-01-15. Why study music? An introduction to the main aspects of the subject outlining the many benefits of a music degree.

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*Music Technology Workbook* Paul Middleton, Steven Gurevitz, 2013-04-26. This practical music technology workbook enables students and teachers to get the best possible results with the available equipment. The workbook provides step by step activities for classroom based and independent project work covering the skills and techniques used in modern music production. All are related to specific areas of the GCSE AS A2 and BTEC curricula. The activities are supplemented with basic concepts, hints and tips on techniques, productions, skills and system optimisation to give students the best possible chance of passing or improving their grade. The book includes screenshots throughout from a variety of software including Cubasis, Cubase SX, Logic and Reason though all activities are software and platform independent.

**The Routledge Companion to Music, Technology, and Education** Andrew King, Evangelos Himonides, S. Alex Ruthmann, 2017-01-20. The Routledge Companion to Music Technology and Education is a comprehensive resource that draws together burgeoning research on the use of technology in music education around the world. Rather than following a procedural 'how to' approach, this companion considers technology, musicianship and pedagogy from a philosophical, theoretical and empirically driven perspective offering an essential overview of current scholarship while

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Experiencing Music Technology David Brian Williams, Peter Richard Webster, 1996 This second edition of the classic book is thoroughly revised to reflect the vast influence of the Internet New information on current operating systems hardware and software has been added to this comprehensive survey of MIDI sound generation Computer Assisted Instruction CAI digital recording sampling music scoring and composing

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