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Cover; Computational Thinking in Sound Teaching the Art and Science of Music and Technology; Copyright; Dedication; CONTENTS; ACKNOWLEDGMENTS; PREFACE; THINKING AND TEACHING BEYOND OUR DISCIPLINE-SPECIFIC SILOS; HELPING STUDENTS LEARN ABOUT TECHNOLOGY THROUGH THEIR INTERACTIONS WITH MUSIC; HELPING STUDENTS SEE THE CONNECTION BETWEEN TECHNOLOGY AND MUSIC; TODAY'S COMPLEX PROBLEMS REQUIRE MULTIDISCIPLINARY SOLUTIONS; COMPUTATIONAL THINKING FOR EVERYONE; BIBLIOGRAPHY; ABOUT THE COMPANION WEBSITE; Computational Thinking in Sound
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BUILDING A BETTER MOUSETRAP: LEARNING ENVIRONMENTS THAT FOSTER IMAGINATIVE AND CREATIVE EXPERIENCESTOWARD CREATING MEANINGFUL PROJECTS; Playful and Fun; Collaboration; Exploration and Discovery; Risk Taking and Curiosity; THE YIN AND YANG OF CREATIVITY AND THE COLLABORATIVE PROCESS; BIBLIOGRAPHY; Chapter 3: Interdisciplinary Teaching and Learning: Two Heads Might Actually Be Better than One; YESTERDAY AND TODAY; DEFINING INTERDISCIPLINARY TEACHING; "SYNCHRONIZED" VERSUS "HYBRID" COURSES; LEARNING FROM EXPERIENCE; BENEFITS TO STUDENTS; BENEFITS TO THE PROFESSORS; BIBLIOGRAPHY
Chapter 4: Notation and Representation: How We Get 'Em to Crack the CodeGATEWAYS, BARRIERS, AND BOUNDARIES; FOUND INSTRUMENTS PROJECT: GOALS AND OVERVIEW; A BIT OF BACKGROUND; SYNCHRONIZED CLASS VERSION; Part 1: The Music Assignment; Part 2: The Computer Science Assignment; HYBRID CLASS VERSION; From Two Parts to Three; From Exercises to Music; THEME, VARIATIONS, AND COMPUTATIONAL THINKING; BIBLIOGRAPHY; Appendix for Chapter 4; ADDITIONAL FOUND INSTRUMENTS AND NOTATION EXAMPLES: From the Synchronized Classes; From the Hybrid Class
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Audacity

Sommario/riassunto

This text, for music fundamentals educators, is devoted specifically to music, sound, and technology. The work offers practical guidance on creating an interdisciplinary classroom program, and includes numerous student activities at the intersection of computing and music.