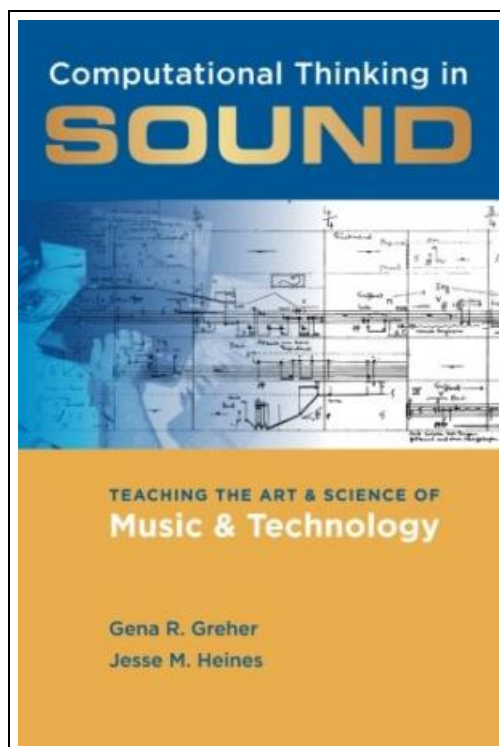


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COMPUTATIONAL THINKING IN SOUND: TEACHING THE ART AND SCIENCE OF MUSIC AND TECHNOLOGY (PAPERBACK)



Oxford University Press Inc, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book. With Computational Thinking in Sound, veteran educators Gena R. Greher and Jesse M. Heines provide the first book ever written for music fundamentals educators which is devoted specifically to music, sound, and technology. The authors demonstrate how the range of mental tools in computer science - for example, analytical thought, system design, and problem design and solution - can be fruitfully applied to music education, including examples of successful student work. While technology instruction in music education has traditionally focused on teaching how computers and software work to produce music, Greher and Heines offer context: a clear understanding of how music technology can be structured around a set of learning challenges and tasks of the type common in computer science classrooms. Using a learner-centered approach that emphasizes project-based experiences, the book provides music educators with multiple strategies to explore, create, and solve problems with music and technology in equal parts. It also provides examples of hands-on activities which encourage students, alone and in interdisciplinary groups, to explore the basic principles that underlie today's music technology and which expose them to current multimedia development tools.



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