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Autore	Roads Curtis
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Soggetti	Computer music - Instruction and study Computer sound processing Software synthesizers Computer composition (Music)
Lingua di pubblicazione	Inglese
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Nota di contenuto	Part I. Digital Audio. History of Digital Audio ; Basics of Sound Signals ; Theory of Sampling / Curtis Roads with John M. Strawn ; Sample Quantization, Conversion, and Audio Formats -- Part II. Introduction to Sound Synthesis -- History of Digital Sound Synthesis ; Wavetable-lookup Synthesis ; Time-varying Waveform Synthesis ; Software Synthesis -- Part III. Sound Synthesis. Sampling ; Additive Synthesis ; Multiple Wavetable Synthesis ; Wave Terrain Synthesis ; Granular Synthesis ; Subtractive Synthesis ; Modulation I : RM, SSM, and AM ; Modulation II : FM, PM, PD, and GM ; Waveshaping Synthesis ; Physical Modeling Synthesis ; Virtual Analog ; Formant Synthesis ; Pulsar Synthesis ; Waveform Segment Synthesis ; Concatenative Synthesis / Bob L. T. Sturm with Curtis Roads ; Graphic Sound Synthesis ; Noise, Chaotic, and Stochastic Synthesis -- Part IV. Mixing and Signal Processing. Sound Mixing ; Dynamic Range Processing ; Digital Filtering / Bob L. T. Sturm with Curtis Roads ; Convolution / Curtis Roads with Bob L. T. Sturm ; Time Delay Effects ; Pitch-time Changing ; Sound Spatialization ; Reverberation -- Part V. Sound Analysis. Pitch Estimation ; Rhythm Recognition and Automatic Transcription ; Introduction to Spectrum Analysis ; Spectrum Analysis by Fourier Methods ; Spectrum Analysis by Alternative Methods ; Spectrum

Analysis by Atomic Decomposition / Bob L. T. Sturm -- Part VI. The Musician's Interface. Musical Input Devices ; Interactive Performance Software ; Sequence Editors ; Sound Editors, DAWs, and Audio Middleware ; Spectrum Editors ; Common Music Notation Editors ; Unconventional Score Editors ; Instrument and Patch Editors ; Languages for Sound Synthesis ; Languages for Composition ; Algorithmic Composition -- Part VII. Interconnections. MIDI ; Open Sound Control (OSC) / Curtis Roads with Matthew Wright -- Appendix A. Machine Learning / Bob L. T. Sturm with Curtis Roads.

Sommario/riassunto

"A comprehensive overall survey of the tools and techniques used in the field of computer music, aimed at beginners as well as intermediate and advanced users"--
