1.	Record Nr. Autore Titolo Pubbl/distr/stampa	UNINA9910300649903321 Jackson Wallace Digital Audio Editing Fundamentals [[electronic resource] /] / by Wallace Jackson Berkeley, CA : , : Apress : , : Imprint : Apress, , 2015
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	Soggetti	Computer graphics Multimedia information systems Computer Graphics Multimedia Information Systems
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	Nota di contenuto	Contents at a Glance; Contents; About the Author; About the Technical Reviewer; Acknowledgments; Introduction; Chapter 1: The Foundation of Digital Audio: The Sound Wave; Downloading and Installing Audacity; AudacityTeam.org: Get Your Audacity 2.1 Software; Audio File Formats: Installing FFMPEG and LAME; A Foundation for Audio: The Sound Wave; Analog Audio: Sound Waves Formed Out of Air; Digital Audio: Sound Waves Formed Out of Bytes; Summary; Chapter 2: The History of Digital Audio: MIDI and Synthesis; Downloading and Installing Rosegarden; Rosegarden.com: Get Your Rosegarden Software The Digital Audio Player Piano: MIDI DataMIDI Data: Your Musical Instrument Data Interface; Digital Performance Data: MIDI Is Not Digital Audio; Audio Synthesis: Synthesizers Create Sound Waves; MIDI Platform Support: Android, HTML5, and Java; Summary; Chapter 3: The Reproduction of Digital Audio: Data Sampling; Data Sampling: Resolution and Frequency; Sampling Digital Audio: Taking a Data Sample; Data Sample Resolution: Data Bytes per Sample; Data Sample Frequency: Data Samples per Second; Data Sample Mathematics: Amount of Binary Data; Sample Products: Sampler Hardware and Libraries Recording Digital Audio: Using AudacitySummary; Chapter 4: The Transmission of Digital Audio: Data Formats; Audio Compression and

	Data Formats; Digital Audio Codecs: Bit Rates, Streaming, and HD; Digital Audio Transmission: Streaming Audio or Captive Audio?; Streaming Digital Audio Data: Setting Your Bit Rates Optimally; High- Definition HD Digital Audio: 24-Bit 48 kHz Sampling Data; Digital Audio Storage and Playback: File Formats; MIDI: Musical Instrument Data Interface's MID, XMF, and MXMF; MPEG-3: The Popular MP3 Digital Audio Player Data Format FLAC: The 24-Bit HD Audio Capable Free Lossless Audio CodecOgg Vorbis: A Lossy High-Performance Open Source Codec; MPEG-4: Advanced Audio Coding AAC-LC, AAC-ELD, or HE-AAC; AMR: The MPEG-4 Adaptive Multi-Rate Audio Codecs for Voice; Pulse-Code Modulation: Windows WAV or Mac AIFF PCM Codecs; Summary; Chapter 5: The Cleanup of Digital Audio: Noise Removal; Noise Removal: Algorithmic Processing; Noise Reduction: Defining the Background Noise; Noise Reduction: Removing the Background Noise; Summary; Chapter 6: The Isolation of Digital Audio: Trimming Tools; Audio Sample Editing: Basic Techniques Trimming Digital Audio: Removing Unused DataExtracting Audio: Selecting Sample Components; Scrubbing Digital Audio: Sample Playback Rate; Rearranging Digital Audio: Cut, Copy, and Paste; Summary; Chapter 7: The Manual Labor of Digital Audio: Sample Editing; Audio Data Editing: Changing the Sample; Cleaning the Sample: Removing Isolated Artifacts; Sample Data Surgery: Removing Attached Artifacts; Algorithmic Sample Surgery: Integrated Artifacts; Summary; Chapter 8: The Algorithms of Digital Audio: Audio Processing; Algorithmic Audio Effects Processing; Waveform Amplitude: The Amplify Effect Waveform Frequency: The Pitch Shifting Effect
Sommario/riassunto	This book is a new media mini-book covering concepts central to digital audio editing using the Audacity 2.1.1 open source software package which also apply to all of the professional audio editing packages. The book builds upon the foundational concepts of MIDI, synthesis (artificially created digital audio), and sampled waveforms (analog audio turned into digital audio). The book gets more advanced as chapters progress, and covers key concepts for new media producers such as how to maximize audio quality and which digital audio, Java JavaFX, iOS, Blackberry, Tizen, Firefox OS, Chrome OS, Opera OS, Ubuntu Touch and HTML5. The book also covers key factors regarding the data footprint optimization work process, streaming versus captive digital audio new media assets, digital audio programming and publishing platforms, and why data footprint optimization is important for modern day new media content development and distribution. Industry terminology involved in digital audio editing, synthesis, sampling, analysis and processing The work process which comprises a fundamental digital audio editing, analysis, and effects pipeline The foundational audio publishing How to install, and utilize, the professional, open source Audacity 2.1 digital audio editing software Concepts behind digital audio sample resolution and sampling frequency and how to select settings How to select the best digital audio data codec and format for your digital audio content application How to go about data footprint optimization, to ascertain which audio formats give the best results Using Digital Audio Assets in Computer Programming Languages and Content Publishing Platforms.