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Nota di contenuto	Cover; THE SCIENCE OF SOUND RECORDING; Copyright; CONTENTS; INTRODUCTION; CHAPTER ONE Mathematics and the Measurement of Sound; MATHEMATICS; SINUSOIDS; LOGARITHMS AND EXPONENTS; VECTORS; POLAR COORDINATES; COMPLEX NUMBERS; CALCULUS; STATISTICS; UNITS OF MEASURE; CHAPTER TWO Physics; NEWTON'S LAWS OF MECHANICS; THERMODYNAMICS; ELECTROMAGNETISM; WORK AND ENERGY; RESONANCE AND HARMONIC MOTION; THE WAVE EQUATION; SUPERPOSITION; SUGGESTED READING; CHAPTER THREE Sound; THE PHYSICS OF SOUND; THE PHYSICS OF GASES; SOUND PROPAGATION; SOUND REFRACTION AND DIFFRACTION; ACOUSTICS ROOM MODES OF REFLECTIONSUGGESTED READING; CHAPTER FOUR Hearing; THE AUDITORY SYSTEM; COCHLEAR PHYSIOLOGY; PERCEPTION OF SOUND; REFERENCES; SUGGESTED READING; CHAPTER FIVE Electronics; BASIC ELECTRICITY; PASSIVE ELECTRONIC DEVICES; ACTIVE ELECTRONIC DEVICES; SUGGESTED READING; CHAPTER SIX Microphones; DYNAMIC MICROPHONES; CAPACITOR MICROPHONES;

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DIGITAL FILE DISTRIBUTION

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Sommario/riassunto

The Science of Sound Recording will provide you with more than just an introduction to sound and recording, it will allow you to dive right into some of the technical areas that often appear overwhelming to anyone without an electrical engineering or physics background. The Science of Sound Recording helps you build a basic foundation of scientific principles, explaining how recording really works. Packed with valuable must know information, illustrations and examples of 'worked through' equations this book introduces the theory behind sound recording practices in a logical and prac
