

1. Record Nr.	UNINA9910815756803321
Autore	Silman Shlomo
Titolo	Instrumentation for Audiology and Hearing Science : Theory and Practice
Pubbl/distr/stampa	San Diego : , : Plural Publishing, Incorporated, , 2019 ©2023
ISBN	1-63550-254-3
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (417 pages)
Altri autori (Persone)	EmmerMichele B SilvermanCarol A
Disciplina	617.8
Soggetti	Audiology - instrumentation Hearing Tests - instrumentation Audiologia - Instruments
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	General physics and introduction to sound energy -- Electrical energy : direct current -- Electrical energy : alternating current -- Filtering and electrical impedance -- Building communication systems : evolution from analog to digital -- Acoustic immittance - Amplification -- Assistive listening devices -- Vestibular assessment : electronystagmography and videonystagmography -- Test equipment used in audiology and hearing science -- Instrumentation for calibration and calibration of test stimuli.
Sommario/riassunto	Understanding the array and complexity of instrumentation available to audiologists and hearing scientists is important to students, beginning clinicians, and even seasoned professionals. The second edition of Instrumentation for Audiology and Hearing Science: Theory and Practice is a comprehensive and accessible look at instrumentation used in these fields for research and clinical purposes. The expert authors introduce the laws of physics as they relate to audiology and hearing science and explain a range of concepts in electronics directly related to instrumentation used in audiology and hearing science, such as filtering and immittance (involving admittance and impedance), explain the fundamental instrumentation concepts in mathematics, physics,

and electronics in a systematic manner including only the necessary formulae and basic scientific principles.
