

1. Record Nr.	UNINA9910253895103321
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Titolo	Hearing Aids // edited by Gerald R. Popelka, Brian C. J. Moore, Richard R. Fay, Arthur N. Popper
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-33036-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XII, 333 p. 74 illus., 30 illus. in color.)
Collana	Springer Handbook of Auditory Research, , 0947-2657 ; ; 56
Disciplina	612.8
Soggetti	Neurosciences Otolaryngology Otorhinolaryngology Documentary films. Streaming videos.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Available as both streaming video (4 min., 37 sec., WMV file, sd., col.) and downloadable video (4 min., 37 sec., WMV file, sd., col.) files. Title from title frame. "Photos courtesy of the American Academy of Otolaryngology - Head and Neck Surgery Foundation and the American Academy of Audiologists." Accompanied by transcript in HTML format.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Preface -- Introduction to Hearing Aids -- Population of Hearing Aid Candidates -- Hearing Aid Transducers -- Speech Perception and Hearing Aids -- Hearing Aid Signal Processing -- Spatial Hearing and Interactions with Hearing Aids -- Wireless Connectivity and Patient Interface -- Fitting and Clinical Verification of Hearing Aid Performance -- Validation of Hearing Aid Performance in Everyday Life -- Listening to Music through Hearing Aids -- Future Directions for Hearing Aid Development.
Sommario/riassunto	This volume will serve as the first Handbook of its kind in the area of hearing aid research, often the least-defined, least-understood, part of the multi-disciplinary research process. Most scientific training is very advanced within the particular disciplines but provides little

opportunity for systematic introduction to the issues and obstacles that prevent effective hearing-aid related research. This area has emerged as one of critical importance, as signified by a single specialized meeting (the International Hearing Aid Conference, IHCON) that brings together specialists from the disparate disciplines involved, including both university and industry researchers. Identification of the key steps that enable high-impact basic science to ultimately result in significant clinical advances that improve patient outcome is critical. This volume will provide an overview of current key issues in hearing aid research from the perspective of many different disciplines, not only from the perspective of the key funding agencies, but also from the scientists and clinicians who are currently involved in hearing aid research. It will offer insight into the experience, current technology and future technology that can help improve hearing aids, as scientists and clinicians typically have little or no formal training over the whole range of the individual disciplines that are relevant. The selection and coverage of topics insures that it will have lasting impact, well beyond immediate, short-term, or parochial concerns. .
