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Titolo	The Auditory System at the Cocktail Party // edited by John C. Middlebrooks, Jonathan Z. Simon, Arthur N. Popper, Richard R. Fay
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction to the Cocktail Party -- Auditory Object Formation and Selection -- Spatial Mechanisms for Scene Analysis -- Informational masking and masking release -- Models of Stream Segregation -- Spatial Stream Segregation in the Auditory Cortex -- Neurophysiology and Neuroimaging of Auditory Stream Segregation in Humans -- Development -- Aging -- Cochlear implants and hearing aids.
Sommario/riassunto	The Auditory System at the Cocktail Party is a rather whimsical title that points to the very serious challenge faced by listeners in most everyday environments: how to hear out sounds of interest amid a cacophony of competing sounds. The volume presents the mechanisms for bottom-up object formation and top-down object selection that the auditory system employs to meet that challenge. Ear and Brain Mechanisms for Parsing the Auditory Scene by John C. Middlebrooks and Jonathan Z. Simon Auditory Object Formation and Selection by Barbara Shinn-Cunningham, Virginia Best, and Adrian K. C. Lee Energetic Masking and Masking Release by John F. Culling and Michael A. Stone Informational Masking in Speech Recognition by Gerald Kidd, Jr. and H. Steven Colburn Modeling the Cocktail Party Problem by Mounya Elhilali Spatial Stream Segregation by John C. Middlebrooks Human Auditory Neuroscience and the Cocktail Party Problem by Jonathan Z. Simon

Infants and Children at the Cocktail Party by Lynne Werner Older Adults at the Cocktail Party by M. Kathleen Pichora-Fuller, Claude Alain, and Bruce A. Schneider Hearing with Cochlear Implants and Hearing Aids in Complex Auditory Scenes by Ruth Y. Litovsky, Matthew J. Goupell, Sara M. Misurelli, and Alan Kan About the Editors: John C. Middlebrooks is a Professor in the Department of Otolaryngology at the University of California, Irvine, with affiliate appointments in the Department of Neurobiology and Behavior, the Department of Cognitive Sciences, and the Department of Biomedical Engineering. Jonathan Z. Simon is a Professor at the University of Maryland, College Park, with joint appointments in the Department of Electrical and Computer Engineering, the Department of Biology, and the Institute for Systems Research. Arthur N. Popper is Professor Emeritus and Research Professor in the Department of Biology at the University of Maryland, College Park. Richard R. Fay is Distinguished Research Professor of Psychology at Loyola University, Chicago. About the Series: The Springer Handbook of Auditory Research presents a series of synthetic reviews of fundamental topics dealing with auditory systems. Each volume is independent and authoritative; taken as a set, this series is the definitive resource in the field.
