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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  
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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.

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