

Contents

Inference of Sound Attenuation in Marine Sediments from Modal Dispersion in Shallow Water	1
N. Ross Chapman and Juan Zeng	
Counterintuitive Results in Underwater Acoustic Communications	11
Daniel Rouseff	
Comparisons of Methods for Numerical Internal Wave Simulation in Long-Range Acoustical Propagation	19
Rex K. Andrew	
Acoustic Data Assimilation: Concepts and Examples	27
Liling Jin, Wen Xu, Jiamin Huang and Jianlong Li	
The Preliminary Results of a Single-Hydrophone Geoacoustic Inversion for Data Collected at the Sea of Japan	37
Pavel S. Petrov	
Measurements of Ultrasound Attenuation of Suspended Particles with Various Size Distributions	45
Changil Lee, Jee Woong Choi and Jungyul Na	
A Low Complexity Multichannel Adaptive Turbo Equalizer for a Large Delay Spread Sparse Underwater Acoustic Channel	49
Yanbo Wu and Min Zhu	
A Turbo Equalization Based on a Sparse Doubly Spread Acoustic Channels Estimation	57
Zibin Yu, Hangfang Zhao, Wen Xu and Xianyi Gong	
Design and Testing of Underwater Acoustic Communications for an AUV	63
Hongtao Zhang, Zhijie Yue, Zhe Xie and Zhongkang Wang	

Research of Axis Mismatches Between Pairs of Sensitive Elements of Underwater Acoustic Velocity Gradient Sensors	71
Xinyi Sun, Desen Yang, Lianjin Hong, Shengguo Shi and Hongkun Zhou	
A Passive Fathometer Technique for Bottom Profiling Using Ambient Noise.	81
Junghun Kim, Jee Woong Choi and Jungyul Na	
Target Motion Parameter Estimation for LOFARgrams Based on Waveguide Invariants.	85
Jian Li, Guangjie Han, Defu Zhou, Kai Tang and Qingbang Han	
Source Localization by Maximizing the Longitudinal Correlation Using Waveguide Invariant Theory.	93
Xian Zhu and Huiliang Ge	
Selective Detection and Localization by Decomposition of a Subrank Time Reversal Operator	99
Chunxiao Li, Mingfei Guo and Huancai Lu	
Sounds of Undersea Gas Leaks	107
Alexey O. Maksimov, Boris A. Burov, Alexander S. Salomatin and Denis V. Chernykh	
Multi-AUV Localization for an Underwater Acoustic Sensor Network.	117
Bo Li, Yuanxin Xu and Wen Xu	

Underwater Acoustics and Ocean Dynamics
Proceedings of the 4th Pacific Rim Underwater
Acoustics Conference

Zhou, L.; Wen, X.; Cheng, Q.; Zhao, H. (Eds.)

2016, X, 127 p. 65 illus., 41 illus. in color., Hardcover

ISBN: 978-981-10-2421-4