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High-Frequency Seafloor Acoustics is the first book in a new series sponsored by the Office of Naval Research on the latest research in underwater acoustics. This exciting new title provides ready access to experimental data, theory, and models relevant to high-frequency seafloor acoustics and will be of interest to

High-frequency seafloor acoustics (Book, 2007) [WorldCat.org]

High-Frequency Seafloor Acoustics - Ebook written by Darrell Jackson, Michael Richardson. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while you read High-Frequency Seafloor Acoustics.

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Backscatter strength versus incidence angle has been measured from a variety of seafloor types from Australian coastal waters using a Reson Seabat 8125 multibeam echo-sounder (MBES) operating at 455 kHz. MBES surveys were carried out at six sites around Australia (between 2004 and 2006).

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The attenuation mechanisms of high-frequency acoustic waves in seafloor sediments are typically considered, including the viscous movement of water in pores, viscous-like forces between grains ...

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High-frequency seafloor acoustic backscatter from coastal ...

Laboratory experiments show that at high frequency a shell's normal incidence target strength can be approximated by solid sphere scattering theory. Theoretical models are developed for high frequency acoustic backscattering from a statistically isotropic seafloor, especially on continental shelves.

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High-Frequency Seafloor Acoustics. The Journal of the Acoustical Society of America 122, 2497 ... High-frequency bottom backscattering: Roughness versus sediment volume scattering ... Geoacoustic modeling of the sea floor. Edwin L. Hamilton. more... Nov 1980. Application of the composite roughness model to high-frequency bottom ...

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In this chapter, surficial sediment physical properties relevant to high-frequency acoustics will be discussed. The term "physical properties" denotes such things as porosity, permeability, mean grain size, particle, pore fluid and pore space characteristics, and sediment type.

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