



History of Russian Underwater Acoustics

Oleg A. Godin, David R. Palmer

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This book describes, using first-person accounts, the history of the development in the Soviet Union and, later, in Russia of an extremely important technical field and how that history was influenced by WWI, WWII, and the Cold War, by government bureaucracy, in both positive and negative ways, by the economic collapse of the Soviet Union, and most importantly, by the dedicated efforts of vast numbers of individuals, including some of the greatest scientific minds of the 20th century. It will make fascinating reading for engineers and scientists who were engaged in similar work in the West, for historians of the Cold War and of the Soviet Union, and for present day researchers who need to learn about Russian scientific contributions.

Because of its importance to national security, much of the research and development effort in underwater acoustics was classified during the Cold War, both in the Soviet Union and the United States. This book presents the first declassified accounts of the development of numerous hydroacoustic systems by individuals having first-hand knowledge of the development efforts.

Contents:

- Introduction: Underwater Acoustics and the Ocean;
- Hydroacoustics in Russia from the 19th Century to the Present Time;
- The Physics of Underwater Sound;
- Laying the Scientific and Practical Foundation for Home Hydroacoustics;
- Submarines Hydroacoustic Equipment;
- Sonar Systems for Surface Ships;
- Stationary Sonar Systems;
- Specialized Hydroacoustic Systems;
- Sonar Arrays;
- The Role of the Radio Engineering Department and the Naval RI in the Creation of Hydroacoustic Equipment;
- Organization of Hydroacoustic Equipment Development;
- Training of Hydroacoustics Engineering and Research Personnel;
- Veterans Remember.

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