

XVI. PHYSICAL ACOUSTICS*

Academic and Research Staff

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RESEARCH OBJECTIVES

Our general objective involves the study of the emission, propagation, and absorption of acoustic waves in matter. Specific areas of present research include (i) the interaction of waves with coherent light beams in fluids and solids, (ii) dispersion of sound in semiconductors in the presence of an electric field, (iii) nonlinear acoustics in fluids, and (iv) the generation and propagation of sound waves in flowing plasmas. In this last field of research, study of the density fluctuations in supersonic jets is under way.

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