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### 1 FUNDAMENTALS OF ACOUSTICS - WHO

Physical acoustics is the area of acoustics and physics that studies interactions of acoustic waves with a gaseous, liquid or solid medium on macro- and micro-levels. This relates to the interaction of sound with thermal waves in crystals (), with light (), with electrons in metals and semiconductors (acousto-electric phenomena), with magnetic excitations in ferromagnetic crystals (), etc.

### Physical acoustics - Wikipedia

Hard Boundary Soft Boundary (wave is flipped) (wave is mirrored) Wave Superposition and Standing Wave •The sum of two travelling waves in opposite directions with the same frequency cancel or reinforce each other, creating a stationary oscillation

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Thus if it is a text for a problem-oriented course in acoustics that one seeks -- the fourth edition of the "Fundamentals of Acoustics" is a fine text. However, if one wishes to have a ready reference that is extraordinarily comprehensive, or a pedagogical work that doesn't focus on mathematical derivations, better choices can surely be made.

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Understanding acoustics means becoming familiar with many of the common sound terms used by industry professionals. This next section will provide an overview of the fundamentals of acoustics - the acoustics basics you need to know including definitions of the most common terms sorted alphabetically.

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