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Introduction

Acoustics is the science of sound, that is, wave motion in gases, liquids and solids, and the effects of such wave motion. Thus the scope of acoustics ranges from fundamental physical acoustics to, say, bioacoustics, psychoacoustics and music, and includes technical fields such as transducer technology, sound recording and reproduction, design of theatres and concert halls, and noise control. In this textbook we focus on fundamentals of wave motion in air at audible frequencies, technical fields are only touched upon, and perceptual aspects of sound are not dealt with.

