
Chapter 1

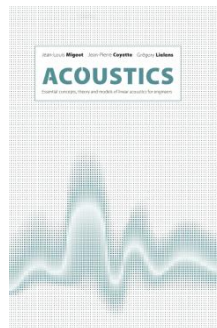
Introduction

Jean-Louis Migeot

Short bio

➤ Academic experience

- 1984 M.Sc. Eng. – University of Brussels
- 1986 MBA – University of Brussels
- 1997 PhD – University of Brussels
- 2001 Professor of Acoustical Engineering – University of Brussels
- 2011 Member of the Belgian Royal Academy of Arts, Science and Humanities
- 2014 Professor of musical acoustics – University of Liège



➤ Professional experience

- 1987 Structural Dynamics Research Corporation
- 1991 co-founder Numerical Integration Technologies
- 1998 co-founder and CEO Free Field Technologies

Course structure

- An overview of acoustics
- Fundamental equations of acoustics:
 - Wave equation
 - Fourier theory
 - Helmholtz equation
- Sound levels
- Fundamental acoustic phenomena
 - propagation and attenuation
 - reflection and absorption
 - resonance
 - guided propagation
 - sound radiation
 - fluid structure interaction
 - sound transmission and insulation
 - aero-acoustics
- Numerical methods in acoustics

