Acoustics II A

Course information

ECTS: 2	Common with the master in Acoustics	Course code :
Lecture: none	Tutorial classes: 22h	Practical work: none

Course coordinator: Olivier Richoux

Course Description

Aim

The aim of this course is to acquire knowledge about the integral formulation of acoustic problems: application to 3D acoustic problems (radiation source and sound field bounded 3D environment). Solutions of the wave equation in spherical and cylindrical coordinate systems.

Prerequisite

Course : Acoustics refresh, Acoustics I

Contents

Green functions in 1D, 2D, 3D space (bounded or not), integral formulation.

Literature

* C. Potel, M. Bruneau, "Acoustique Générale", chapters 1, 4-7 (in French)
* S. Temkin, "Elements of Acoustics", chapter 5

Examination duration

2 hours

Examination type

Written examination