

# Software for Noise Control

## Software for Noise Control

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1074 pp. in 3 volumes, soft cover, 1995, FRF 620 (including tax). FRF 587.68 (without tax). Required shipping charge: FRF 100.

This three-volume set is the Proceedings of euro-noise '95 which was held in Lyon, France on 1995 March 21-23. The meeting was the second in the euro-noise series. Unlike the proceedings of the first conference in 1992, euro-noise '95 and the proceedings are devoted to a specific topic, Software for Noise Control. While the topic is specialized, software can (and is) being written to solve a wide variety of problems in noise control engineering, and therefore the subjects in the proceedings cover rather broad areas. The 162 papers in the volumes are divided into eight major sections, generally with several subsections. The sections and subsections are:

Noise prediction in factories, room acoustics (15 papers)

- software available on the market
- present expertise

Prediction of outdoor and traffic noise (27 papers)

- traffic noise: provisional models
- traffic noise: expert systems/users
- railway noise and vibration
- environmental noise/industry
- outdoor noise propagation: barriers
- outdoor noise propagation: physical aspects

Prediction and optimization in active control (8 papers)

Prediction of structure-borne noise and related machinery noise (56 papers)

- introductory and invited lectures
- formulations for analytical and structural acoustics software
- applications of analytical and structural software
- formulations for numerical acoustics software
- application of numerical acoustics software
- power flow transmission in structures
- SEA/basic formulations and application of existing tools
- design for structures and machines
- software validation

Ducts and silencers (15 papers)

- waves and pulsations in ducts and pipes
- modeling of silencers

#### Materials for noise control (9 papers)

- absorption
- insulation

#### Aero and hydrodynamic sources and machines (6 papers)

#### Noise measurement using dedicated software (26 papers)

- noise and images
- 3-dimensional acoustics
- computer-aided measurement

The papers in the proceedings generally fall into one of four categories; those which use existing software to solve a specific problem, those which address the software needs of the future, those which use "in house" or proprietary software to solve problems, and those which are primarily analytical in nature and present calculated results.

euro-noise '92 was organized by the Société Française d'Acoustique (SFA), and was held in cooperation with International INCE and the European Acoustical Association. It was an International INCE Symposium.