

26 Dec 2020

Steven Garrett's *Understanding Acoustics: An experimentalist's view of sound and vibration*

AVAILABLE FOR OPEN ACCESS FREE DOWNLOAD



Dear Sir or Madam,

The Paul S. Veneklasen Research Foundation is asking that you make members of the Canadian Acoustical Society aware that the first “open access” **acoustics textbook** is now available for **free download worldwide**. The e-book version of the second edition of Steven Garrett's *Understanding Acoustics: An experimentalist's view of sound and vibration* can be downloaded from the **Springer** web site at the link provided below:

<https://www.springer.com/in/book/9783030447861>

The 100-page *Solution Manual* for all of the end-of-chapter problems in the second edition is also available at that site to qualified instructors, as are links to purchase the print versions or request an instructor examination copy for possible course use.

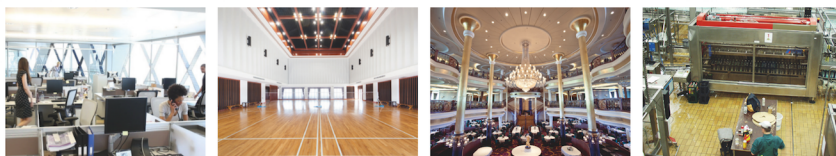
The first edition of Dr. Garrett's textbook received enthusiastic reviews (*e.g.*, P. Joseph, *Physics Today* **70**(10), 62 (2017); M. Kleiner, *J. Audio Eng. Soc.* **65**(11), 972 (2017)) and the second edition corrects some first edition errors, includes many improved figures, as well as new material in such areas as the radiation from an un baffled piston, the introduction of phasor notation to clearly distinguish complex variables, additional problems, and a much more detailed and comprehensive index.

We hope that the members of your acoustical society will find this “open access” second edition useful for both instruction and for reference. If a member of your acoustical society would like to review the second edition in your journal or newsletter, requests for a review copy can be addressed to Springer at Barbara.Amorese@Springer.com.

Sincerely yours,



JOHN LOVERDE, President
The Paul S. Veneklasen Research Foundation



CadnaR is the powerful software for the calculation and assessment of sound levels in rooms and at workplaces

❖ Intuitive Handling

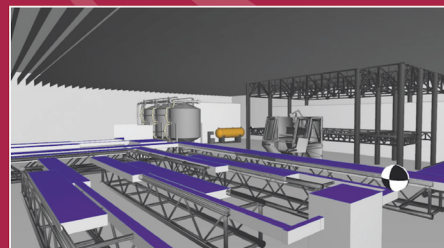
The clearly arranged software enables the user to easily build models and make precise predictions. At the same time you benefit from the sophisticated input possibilities as your analysis becomes more complex.

❖ Efficient Workflow

Change your view from 2D to 3D within a second. Multiply the modeling speed by using various shortcuts and automation techniques. Many time-saving acceleration procedures enable a fast calculation process.

❖ Modern Analysis

CadnaR uses scientific and highly efficient calculation methods. Techniques like scenario analysis, grid arithmetic or the display of results within a 3D-grid enhance your analysis and support you during the whole planning and assessment process.



Fields of Application

Office Environments

- Process your acoustic calculations and assessments according to DIN 18041, VDI 2569 and ISO 3382-3
- Receiver chains serve as digital “measurement path” and provide you with relevant insights into the acoustic quality of rooms during the planning phase
- Import of DWG-/DXF-/SKP-files (e.g. pCon.planner, AutoCAD, SketchUp)
- Visualization of noise propagation, noise levels and parameters for quality criteria like the Speech Transmission Index STI

Production Plants

- Calculation of the sound load at workplaces based on the emission parameters specified by the machine manufacturer according to the EC guideline 2006/42/EC while also taking the room geometry and the room design into account
- Tools for enveloping surfaces and free field simulations to verify the sound power of the sources inside of the enveloping surface
- Calculation of the sound power level based on technical parameters such as rotational speed or power



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