



Acoustics and Noise Control

By R J Peters



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Acoustics and Noise Control provides a detailed and comprehensive introduction to the principles and practice of acoustics and noise control. Since the last edition was published in 1996 there have been many changes and additions to standards, laws and regulations, codes of practice relating to noise, and in noise measurement techniques and noise control technology so this new edition has been fully revised and updated throughout.

The book assumes no previous knowledge of the subject and requires only a basic knowledge of mathematics and physics. There are worked examples in the text to aid understanding and a range of experiments help students use complicated apparatus.

Thoroughly revised to cover the latest changes in standards, codes of practice and legislation, this new edition covers much of the Institute of Acoustics Diploma syllabus and has an increased emphasis on the legal issues relating to noise control.

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Editorial Review

From the Back Cover

Acoustics and Noise Control provides a detailed and comprehensive introduction to the principles and practice of acoustics and noise control. Since the last edition was published in 1996, there have been many changes and additions to standards, laws and regulations, codes of practice relating to noise, and in noise measurement techniques and noise control technology. This new edition has therefore been fully revised and updated throughout. Although this book assumes no previous knowledge of the subject and requires only a basic knowledge of mathematics and physics, derivations in appendices to chapters have been added as a new feature for the benefit of readers who may wish to delve deeper into the theoretical background to the subject.

Features:

- * thoroughly revised to cover the latest changes in standards, codes of practice and legislation
- * incorporates many worked examples in the text along with a range of experiments to help students use simple and more complex apparatus to make reliable noise measurements
- * reflects increased emphasis on the legal issues relating to noise control
- * an Appendix provides a list of possible experiments, exercises and observations for the reader to carry out
- * includes a bibliography along with an expanded glossary

Topics include: the nature and behaviour of sound; sound propagation; human response to noise; environmental noise; room acoustics; sound insulation; vibration; measurement and instrumentation; noise control; the law relating to noise.

This new edition covers much of the Institute of Acoustics Diploma syllabus, and those of various M.Sc. courses in acoustics, as well as the acoustics and noise control components of degree and higher level technician courses in architecture, construction, engineering, environmental health, environmental science, health and safety and occupational hygiene. It is also a useful reference book for noise consultants, architects, building services engineers and environmental health officers.

R J Peters is Principal Acoustics Consultant at Applied Acoustics Design, a Visiting Research Fellow at London, South Bank University and a freelance lecturer in acoustics and noise control. He was formerly Head of School of Environmental Engineering at NESCOT (North East Surrey College of Technology).

B J Smith is an educational consultant and was formerly Head of School of Building at Ulster Polytechnic.

Margaret Hollins is Deputy Head of the Urban, Environment and Leisure Studies Department at London South Bank University.

About the Author

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Margaret Hollins is Deputy Head of the Urban, Environment and Leisure Studies Department at London South Bank University.

Users Review

From reader reviews:

Evelyn Spencer:

Nowadays reading books be a little more than want or need but also become a life style. This reading habit give you lot of advantages. The benefits you got of course the knowledge the actual information inside the book in which improve your knowledge and information. The data you get based on what kind of publication you read, if you want drive more knowledge just go with training books but if you want really feel happy read one having theme for entertaining including comic or novel. Often the Acoustics and Noise Control is kind of book which is giving the reader capricious experience.

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