



TABLE OF CONTENTS

●	Description	p.1
●	Audience	p.1
●	Impact Factor	p.1
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.3



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DESCRIPTION

Since its launch in 1968, *Applied Acoustics* has been publishing high quality research papers providing state-of-the-art coverage of research findings for engineers and scientists involved in **applications of acoustics** in the widest sense.

Applied Acoustics looks not only at recent developments in the understanding of acoustics but also at ways of exploiting that understanding. The Journal aims to encourage the exchange of practical experience through publication and in so doing creates a fund of technological information that can be used for solving related problems. The presentation of information in graphical or tabular form is especially encouraged. If a report of a mathematical development is a necessary part of a paper it is important to ensure that it is there only as an integral part of a practical solution to a problem and is supported by data. *Applied Acoustics* encourages the exchange of practical experience in the following ways: • Complete Papers • Short Technical Notes • Review Articles; and thereby provides a wealth of technological information that can be used to solve related problems.

Manuscripts that address all fields of **applications of acoustics** ranging from medicine and NDT to the environment and buildings are welcome.

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Acousticians, design and consulting engineers, architects, building scientists, noise control engineers.

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INTRODUCTION

Applied Acoustics is concerned with application of acoustics in its widest sense. It is intended for engineers and scientists concerned with the design of buildings with active and passive noise control and with structural and computational acoustics and vibration. It aims to present the current understanding of the acoustics and acoustical devices in applications ranging from musical instruments to sound propagation through the atmosphere and underwater, and to convey methods of exploiting that understanding.

In addition the journal aims to encourage the exchange of practical experience, whether in the form of a complete paper, short technical note or letter, and in so doing to create a fund of technological information that can be used for solving related problems. The presentation of information in graphical or tabular form is especially encouraged.

Where mathematical or numerical developments are necessary, it is important to ensure that they are there only as an integral part of a practical solution to a problem. It should be noted that the journal does not normally publish papers of a purely theoretical or numerical nature, or that contain extensive mathematical or numerical developments, unless, at least, they include also reference to a pertinent practical acoustical problem or are offered as a tutorial on a method for solving an explicit problem in acoustics or vibration. Preferably, all submitted theoretical or numerical developments should be accompanied by experimental validation.

Special Issues devoted to papers concerning a particular field of acoustics or vibration are a regular feature of the journal. Authors who would be interested in compiling a special issue and acting as guest Editors for this issue should consult the Special Issue sub-topic in this guide and contact the appropriate Associate Editor.

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An article that simply applies a well established numerical method to study an acoustic problem does not on its own justify publication in the journal. For it to be acceptable, it must contain sufficient contributions that advance the knowledge of the method itself or the acoustic problem that it is applied to. These could, for examples, come from: New developments in either the method or the procedure to apply the method that are required to overcome significant obstacles in order to obtain a satisfactory solution to the acoustic problem. Findings that points to new and fundamental understanding of the acoustic problem and its solution and underlying mechanisms that applies to the acoustic problem in general rather than just the specific cases or design modifications studied in the article.

In addition, articles of this type should always contain validation against appropriate sources, preferably experiment results, on the key features of the numerical solution. For example, if optimisation of a design is involved, then the result of the optimisation, and not just a basic configuration before the optimisation, should be validated preferably by laboratory or site measurements.

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Manuscript Grading

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