



# Handbook of Viscoelastic Vibration Damping

By David I. G. Jones

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Describing at a fundamental level the improvements in knowledge of viscoelastic damping which have occurred in recent years, this text will allow engineers to increase their understanding of basic principles and hence improve their appreciation of the potential damping applications of viscoelastic materials.

Features include:

- \* Emphasis on step-by-step explanations and illustrations
- \* Simple approaches for practical structural applications

This text is a wide ranging and valuable reference resource for anyone involved in vibration control, including vibration control analysts, researchers, practitioners and designers in industry and consultancy as well as graduate students in mechanical, aeronautical and marine engineering.

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## **Handbook of Viscoelastic Vibration Damping** By David I. G. Jones Bibliography

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## **Editorial Review**

From the Back Cover

Viscoelastic damping is becoming widely applied for vibration and noise control in various industries, the most notable examples being aerospace, automotive, computer peripherals and propulsion. A recent review of the literature shows that many engineers are still applying the technology without having a good understanding of the basic underlying principles or the means of describing and measuring the damping parameters.

The comprehensive book introduces simple and effective approaches for describing the damping related properties of viscoelastic materials, with emphasis on the effects of frequency and temperature, and proceeds to illustrate simple techniques for measuring the desired properties and for selecting and applying the materials. In all cases, the need for simplicity in practical applications is emphasized.

Particular topics addressed in some detail include:

- \* the complex modulus model of viscoelastic behaviour
- \* effects of frequency and temperature on stiffness and damping of viscoelastic materials
- \* combination of frequency and temperature into a single variable
- \* analysis and evaluation of the quality of available test data by means of the Wicket Plot
- \* simple means of measuring stiffness and damping of viscoelastic materials
- \* simple approaches for design of treatments for practical structural applications

Practical examples will illustrate the approaches taken. The technical level is as simple as can be achieved without losing clarity, in order that newcomers to the technology can quickly learn the essentials and apply viscoelastic damping in their workplace. This is particularly a handbook for practising engineers confronted daily by vibration problems, who are nevertheless beginners in the specific area of viscoelastic damping.

## **Users Review**

**From reader reviews:**

**Ryan Brown:**

In this 21st century, people become competitive in every way. By being competitive today, people have to do something to make these people survive, being in the middle of the crowded place and notice simply by surrounding. One thing that oftentimes many people have underestimated this for a while is reading. Sure, by reading a reserve your ability to survive increase then having chance to stay than other is high. In your case who want to start reading the book, we give you that Handbook of Viscoelastic Vibration Damping book as nice and daily reading guide. Why, because this book is more than just a book.

**Armando Lemaire:**

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**Jeannie Brenner:**

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