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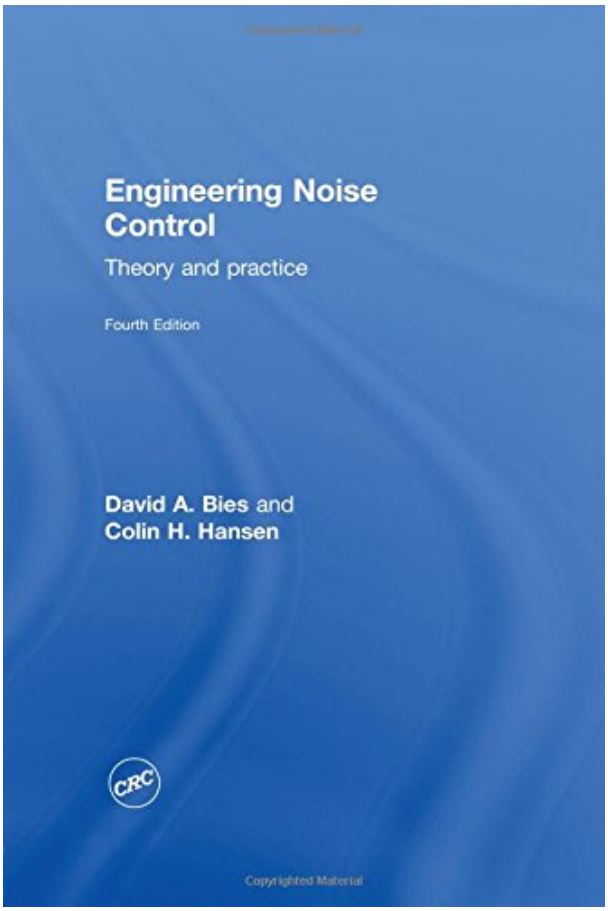

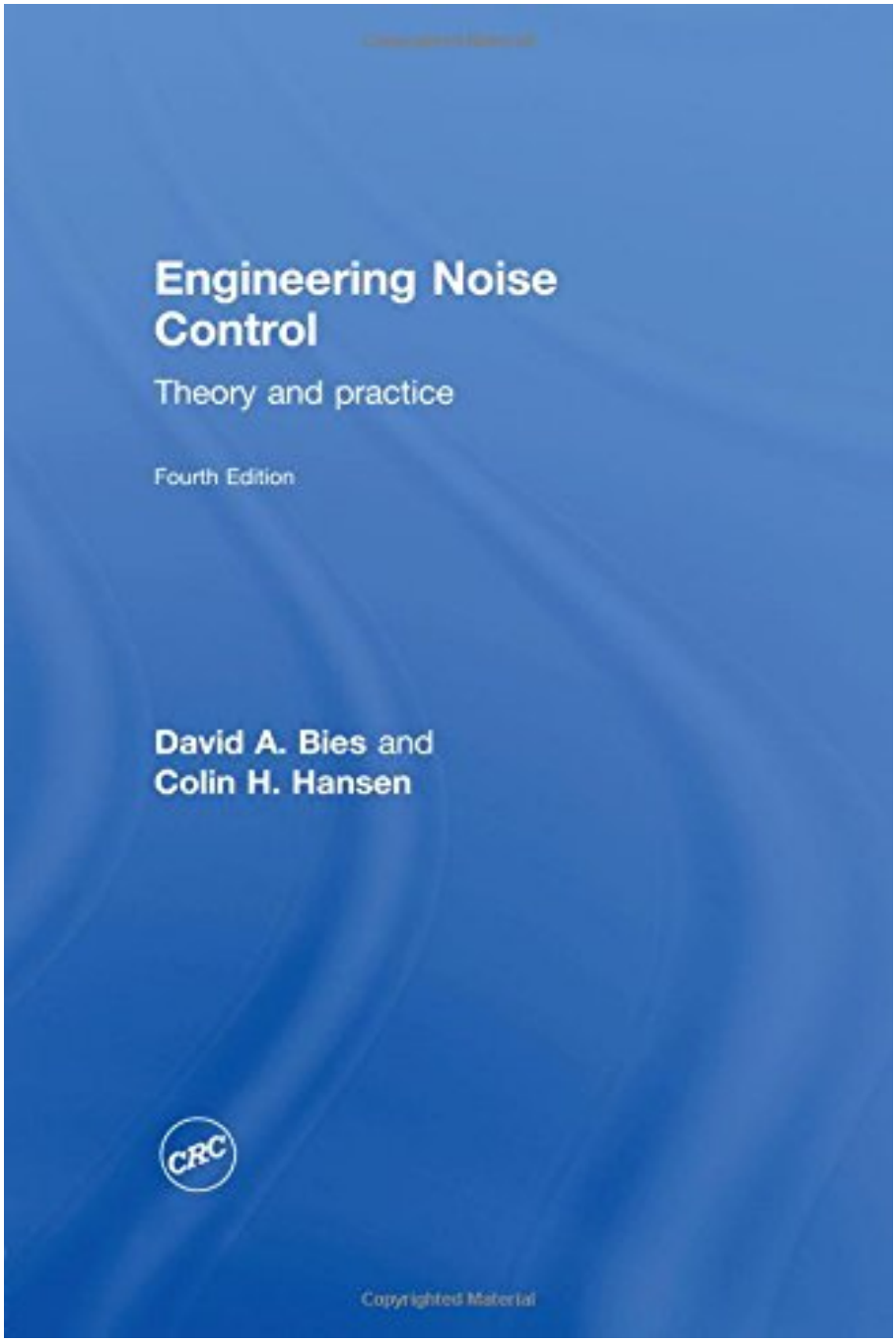

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Review

If you don’t already have Bies and Hansen and you work in the field of noise control then this should be high on your list of purchases.
?Noise Control Engineering Journal

About the Author

David A. Bies is now retired having served as a Reader and then Visiting Research Fellow at the University of Adelaide’s School of Mechanical Engineering. He is an expert and widely published acoustics physicist who has also worked as a senior consultant in industry.

Colin H. Hansen is Professor and Head of the School of Mechanical Engineering at the University of Adelaide. With a wealth of experience in consulting, research and teaching in acoustics, he has authored numerous books, journal articles and conference proceedings on the topic.

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The practice of engineering noise control demands a solid understanding of the fundamentals of acoustics, the practical application of current noise control technology and the underlying theoretical concepts. This fully revised and updated fourth edition provides a comprehensive explanation of these key areas clearly, yet without oversimplification. Written by experts in their field, the practical focus echoes advances in the discipline, reflected in the fourth edition's new material, including:

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- Brand: David A Bies Colin H Hansen
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Features

- Engineering Noise Control Theory and Practice

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One of the best references on industrial noise control
By Mohammad Abdulqader
I really appreciate the excellent work of D. Bies and C. Hansen in putting most of their research papers and efforts in this book. I consider this my # 1 reference in industrial noise control. There are of course many books in my library but this book explains in a better way how the formulas are derived. The book is excellent for those who have basic understanding of industrial noise. The book covers most of the cases in the design of barriers and partitions; however it did not provide the method how to model three layer plates. In enclosures design the book introduced a good method using the " C " constant but this part in my opinion still need to be enhanced with examples. The book needs solved exercises for users to better understand the application of the models. For example in the ducts and mufflers section the book concentrated more on rectangular ducts and the model developed by the authors in their famous paper in 1991 using the acoustic resistivity method and the ratio l/h and the resultant dB per h length of the duct. This section needs also to cover more about exhaust mufflers using single and multi-champers. In general this book is excellent and I don't expect from every book to cover everything but every book has a room for improvement.

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By Egger
An excellent book for an acoustic consultant or anyone trying to solve a problem in noise control. Bies and Hansen have gone through several editions with improvements and corrections that have fine tuned this book. (Edition one had a mistake in a valve noise equation 11.27, which has been corrected and the section expanded in edition four.) The section on instrumentation has been updated to include things like holography and beamforming. Silencer design is well covered. Fan and jet noise predictions are useful but somewhat over simplified. Noise metrics are well summarized. It is the first book I reach for when confronted with a new problem or to brush up on technology I haven't used for awhile.

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