

# Preface

This book focuses on a mechatronic approach to active control of interior noise. It strives to comprehend the results of a five year research period as chief engineer with the chair for mechatronics of the Helmut-Schmidt-University/University of the Federal Armed Forces Hamburg.

Although the book starts with fundamental concepts, the reader is expected to be familiar with engineering mechanics and/or engineering acoustics (including experimental techniques), system theory and numerical mathematics. The target audience therefore consists of post graduate students, professional engineers, and researchers working in mechatronics, and especially in the field of active interior noise control.

At the beginning of each new chapter, an abstract contains both a short summary and, as recommendations for further reading, a brief comment on literature. The important contributions to the subject matter are quoted throughout the text. However, the list of references is far from being complete. I therefore apologize to any colleagues not mentioned in spite of their important contributions to academic and/or applied research on active noise and vibration control.

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