



# **Automotive Buzz, Squeak and Rattle: Mechanisms, Analysis, Evaluation and Prevention**

*Martin Trapp, Fang Chen*

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Buzz, squeak, and rattle (BSR) is the automotive industry term for the audible engineering challenges faced by all vehicle and component engineers. Minimizing BSR is of paramount importance when designing vehicle components and whole vehicle assemblies. This is the only book dedicated to the subject. It provides a self-contained reference to the background theory, testing, analysis, and elimination of BSR. Written for practicing engineers and industry researchers, the book has a strong focus on real-world applications making it an ideal handbook for those working in this important area. Chapters from leading experts from across the motor industry-with input from the design and research labs of Ford, Toyota, Daimler-Chrysler and GM-review the techniques available and provide readers with the appropriate physics, structural dynamics and materials science to address their own BSR issues.

- The only book available on automotive BSR (buzz, squeak and rattle)-the number one cause of complaint on new cars
- Comprehensive and authoritative, with contributions from leading figures in the field and companies such as Ford, Toyota and Daimler-Chrysler
- Enables readers to understand and utilize the complex tools used to assess, identify and rectify BSR in vehicle design and testing

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