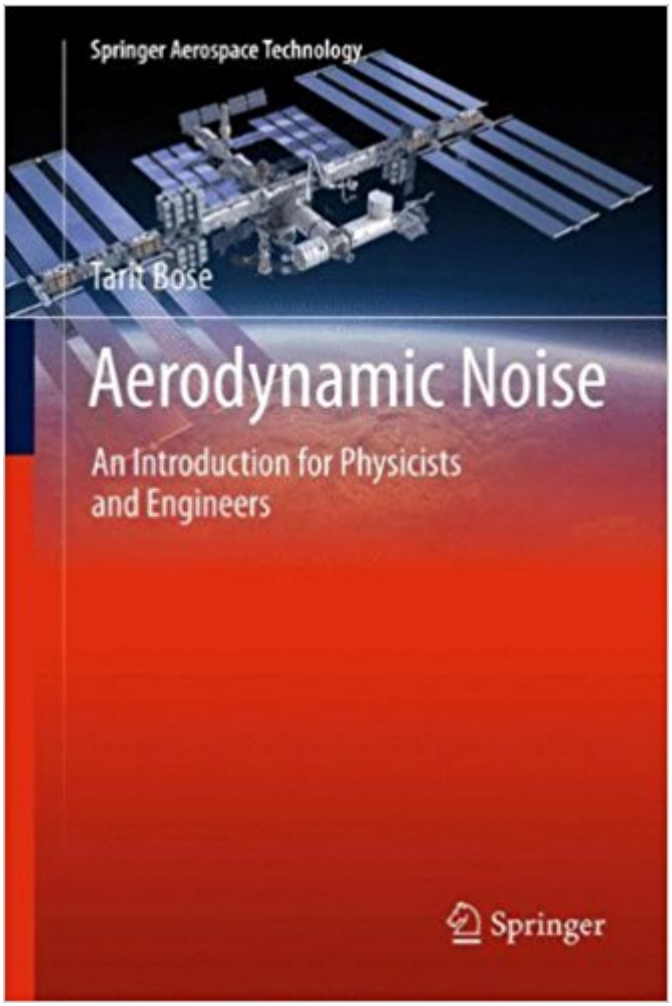
Aerodynamic Noise: An Introduction For Physicists And Engineers (Springer Aerospace Technology)



Synopsis

Aerodynamic Noise extensively covers the theoretical basis and mathematical modeling of sound, especially the undesirable sounds produced by aircraft. This noise could come from an aircraftÃ¢â ¬â„¢s engineÃ¢â ¬â ¢propellers, fans, combustion chamber, jetsÃ¢â ¬â ¢or the vehicle itselfÃ¢â ¬â ¢external surfacesÃ¢â ¬â ¢or from sonic booms. The majority of the sound produced is due to the motion of air and its interaction with solid boundaries, and this is the main discussion of the book. With problem sets at the end of each chapter, Aerodynamic Noise is ideal for graduate students of mechanical and aerospace engineering. It may also be useful for designers of cars, trains, and wind turbines.

Book Information

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Customer Reviews

From the reviews:Ã¢â ¬Å“The text is concise, though clearly written. Ã¢â ¬Â¦ This fairly short book comes complete with an index and a useful list of references. Ã¢â ¬Â¦ most useful to engineers and professionals of other disciplines who wish to obtain an introduction to the physics and terminology of aerodynamic noise, perhaps to allow more informed interaction with aeroacousticians or as a precursor to further study.Ã¢â ¬Â• (Craig J. Mead, The Aeronautical Journal, January, 2014)Ã¢â ¬Å“Aerodynamic Noise is a seven step introductory textbook on numerical aero-acoustics. Ã¢â ¬Â¦ Aerodynamic Noise is a good course book and is also a useful reference for anyone wanting to quickly get up to speed on numerical aeroacoustics. It could be used at the

senior undergraduate or graduate level of study. Ã¢â ¬Â¦ Aerodynamic Noise is a good textbook for teaching a course and an OK reference for non-academic settings.Ã¢â ¬Â• (Jon Mooney, Noise Control Engineering Journal, Vol. 61 (2), March-April, 2013)

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It is a great book for beginners at the topic. I suggest for anyone who wants to start studying aeroacoustics

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