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FAN ACOUSTICS

Noise Generation and Control Methods

Alain Guédel



F a n A c o u s t i c s

Noise Generation and Control Methods

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PREFACE

This book fills a much needed gap in the literature of ventilation engineering. There have been many volumes published concerning fan types, similarity rules, ducting system calculations and design, applicational problems, etc. At the same time, there has been a paucity of published information on the acoustics and noise control associated with these fans and their systems. Many engineers are wary of entering this "black art," as it is perceived by the non-acoustician. To lead you through the veritable maze of half-truths and empiricism which surrounds the subject, there is none better equipped than Alain Guédel. I have known Alain for a number of years through association on ISO, CEN and industry committees, and have valued his friendship and hard work. He had contributed greatly to the production of many documents and has assisted our endeavors by carrying out technical experiments in support of our deliberations. His knowledge of the science and the practice of fan acoustics is exceptional so that the reader may use this text with confidence.

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