## CONTENTS

	Page
FUNDAMENTALS OF NOISE CONTROL	
Sound Waves and Acoustical Definitions	1
Room Acoustics	12
Sound Propagation, Outdoors	26
The Effects of Noise on People	37
Instrumentation and Noise Measurements	46
Use of Anechoic and Reverberant Rooms for Measurement Noise From Machines	56
Noise Control Approaches	64
Fundamentals of Vibration and Noise Control by Vibration Isolation	69
Noise Control by Absorption	90
Noise Control by Use of Enclosures and Barriers	101
Noise Control with Mufflers	112
Noise Legislation and Regulations	117
REDUCTION OF MACHINERY NOISE	
Instrumentation for Noise and Vibration Measurement	124
Noise Measurements	140
Identification of Noise Sources	145
Truck Noise Control	158
Sources and Reduction of Diesel Engine Noise	191
Noise Source Identification in Diesel Engines	203
Noise Control of New and Existing petrochemical Facilities	217
Controlling Industrial Noise by Means of Room Boundary Absorption	228
Automatic Strip Feed Press Noise and Its Reduction	239
Noise Source Identification and Control of Noise in Punch Presses	243
Noise from Electrical Equipment	251
Operator Noise Control In Construction Machinery	261
Noise Reduction in Metal Cutting Operations	278
Large Steam Turbine-Generator Noise Control	285
Valve and Pipeline Noise Causes and Cures	294
Centrifugal Compressor Noise Reduction Noise of Fans and Blowers	298
Noise of Fans and Blowers	305
NOISE CASE HISTORIES	
M (CHD)	220
Manifold Design of Piston Machinery using a Helmholtz Resonator Approach	320
The use of Acoustical Enclosures to quiet Samll Internal Combustion Engines	332
Reducing the Noise of a Rotary Lawn Mower Blade	342
Acoustic Enclosures for Diesel Engines in Trucks	349
Author index	365
Audioi muca	505