

1. Record Nr.	UNINA9910876687303321
Autore	Taherzadeh Shahram
Titolo	Noise Control
Pubbl/distr/stampa	Somerset, : Wiley, 2014
ISBN	1-118-86386-0 1-118-86384-4
Descrizione fisica	1 online resource (231 p.)
Disciplina	614.78
Soggetti	Noise control -- Law and legislation Noise control -- Technological innovations Noise spectrum
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	<p>""Cover""; ""Title Page""; ""Copyright Page""; ""Contents""; ""Section 1: Noise basics""; ""1.1 Introduction""; ""1.2 The nature of sound""; ""1.2.1 Frequency and wavelength""; ""1.2.2 Speed""; ""1.3 Power, pressure and intensity""; ""1.4 The decibel and weighting""; ""1.4.1 Frequency response""; ""1.4.2 A-weighting""; ""1.5 Adding sound levels""; ""A word about accuracy""; ""1.6 Summary""; ""Section 2: Analysing sounds""; ""2.1 Introduction""; ""2.2 Analysing steady sounds""; ""2.2.1 Reference frequency and A-weighting""; ""2.2.2 Frequency spectrum""; ""2.3 Point sources and line sources""</p> <p>""Point sources""""Line sources""; ""2.4 Directionality""; ""2.5 Sound power level""; ""Calculating the sound power level""; ""2.6 Sound in rooms: reverberation and absorption""; ""2.6.1 The room constant""; ""2.6.2 Estimating the room constant""; ""2.7 Analysing unsteady sounds""; ""2.7.1 Equivalent continuous level""; ""2.7.2 Sound exposure level""; ""2.7.3 Percentile levels""; ""2.8 Summary""; ""Section 3: Outdoor sound""; ""3.1 Introduction""; ""3.2 Geometric divergence (Adiv)""; ""3.3 Atmospheric absorption (Aatm)""; ""3.4 Ground absorption (Aground)""; ""3.5 Barriers (Abar)""</p> <p>""3.6 Other factors""""3.6.1 Atmospheric refraction (Arefr)""; ""3.6.2 Reflections from vertical surfaces (Arefl)""; ""3.6.3 Meteorological correction (Cmet)""; ""3.6.4 Further factors and limitations""; ""3.7</p>

Transport noise"; "3.7.1 Road"; "3.7.2 Rail"; "3.7.3 Air"; "3.8
Summary"; "Section 4: Noise control at source"; "4.1 Introduction";
"4.2 Choosing which source to control"; "4.3 Control of noise by
design or choice of process"; "4.4 Isolating structure-borne
vibration"; "4.5 Enclosures"; "4.6 Frequency dependence of noise
reduction"; "4.7 Summary"
"Section 5: Control between source and receiver""5.1 Introduction";
"5.2 Active noise control"; "Feedback and feedforward"; "5.3 Indirect
sound paths"; "5.4 Absorption and absorbing materials"; "5.4.1
Porous absorbers"; "5.4.2 Panel absorbers"; "5.4.3 Calculating the
effect of absorbing materials"; "5.4.4 Further uses of sound
absorption"; "5.5 Barriers"; "5.5.1 Diffraction"; "5.5.2 Use of
barriers"; "5.6 Summary"; "Section 6: Control at the receiver"; "6.1
Introduction"; "6.2 Sound insulation of dwellings"; "6.2.1 Effect of
low-insulation areas"
"6.2.2 Improving insulation""6.3 Ear protection"; "6.4 Summary";
"Glossary"; "References"; "Acknowledgements"; "Answer ";
"Description"
