

Room type		Octave band analysis	Approximate overall sound pressure level	
		NC/RC	dB(A)	dB(C)
Hotels/Motels	Corridors and lobbies	40	45	65
	Service/support areas	40	45	65
Office buildings	Executive and private offices	30	35	60
	Conference rooms	30	35	60
	Teleconference rooms	25	30	55
	Open-plan offices	40	45	65
	Corridors and lobbies	40	45	65
Courtrooms	Unamplified speech	30	35	60
	Amplified speech	35	40	60
Performing art spaces	Drama theaters, concert and recital halls	20	25	50
	Music teaching studios	25	30	55
	Music practice rooms	30	35	60
Hospitals and clinics	Patient rooms	30	35	60
	Wards	35	40	60
	Operating and procedure rooms	35	40	60
	Corridors and lobbies	40	45	65
Laboratories	Testing/research with minimal speech communication	50	55	75
	Extensive phone use and speech communication	45	50	70
	Group teaching	35	40	60
Churches, mosques, synagogues	General assembly with critical music programs	25	30	55
Schools	Classrooms	30	35	60
	Large lecture rooms with speech amplification	30	35	60
	Large lecture rooms without speech amplification	25	30	55
Libraries		30	35	60

Ashrae Noise Criteria Guidelines

Gilles A. Daigle, Michael R. Stinson



Ashrae Noise Criteria Guidelines:

Handbook of Noise and Vibration Control Malcolm J. Crocker, 2007-10-05 Two of the most acclaimed reference works in the area of acoustics in recent years have been our Encyclopedia of Acoustics 4 Volume set and the Handbook of Acoustics spin off These works edited by Malcolm Crocker positioned Wiley as a major player in the acoustics reference market With our recently published revision of Beranek Vers Noise and Vibration Control Engineering Wiley is a highly respected name in the acoustics business Crocker's new handbook covers an area of great importance to engineers and designers Noise and vibration control is one largest areas of application of the acoustics topics covered in the successful encyclopedia and handbook It is also an area that has been under published in recent years Crocker has positioned this reference to cover the gamut of topics while focusing more on the applications to industrial needs In this way the book will become the best single source of need to know information for the professional markets

High Performance Building Guidelines Andrea Woodner, 2000 High performance buildings maximize operational energy savings improve comfort health design process site design building energy use indoor environment material water mgmt construction admin commissioning operations maintenance

Design Criteria and Construction Standards United States. National Aeronautics and Space Administration, 1965

Springer Handbook of Acoustics Thomas Rossing, 2015-01-15 Acoustics the science of sound has developed into a broad interdisciplinary field encompassing the academic disciplines of physics engineering psychology speech audiology music architecture physiology neuroscience and others Here is an unparalleled modern handbook reflecting this richly interdisciplinary nature edited by one of the acknowledged masters in the field Thomas Rossing Researchers and students benefit from the comprehensive contents spanning animal acoustics including infrasound and ultrasound environmental noise control music and human speech and singing physiological and psychological acoustics architectural acoustics physical and engineering acoustics medical acoustics and ocean acoustics The Springer Handbook of Acoustics reviews the most important areas of acoustics with emphasis on current research The authors of the various chapters are all experts in their fields Each chapter is richly illustrated with figures and tables The latest research and applications are incorporated throughout e g computer recognition and synthesis of speech physiological acoustics psychological acoustics thermoacoustics diagnostic imaging and therapeutic applications and acoustical oceanography This new edition of the Handbook features over 11 revised and expanded chapters new illustrations and two new chapters covering microphone arrays acoustic metamaterials and acoustic emission These improvements will make the handbook even more useful as a reference and a guide for researchers and students in every branch of acoustics Praise for the first edition This treatise is a successful attempt to cover in one book the diverse field of acoustics which ranges from physics to music and from formal mathematics to technological applications It is this reviewer's opinion that a handbook like Rossing's which covers the whole field of acoustics serves a real purpose because it not only gives one a chance to see how one's specialty is

covered but it also permits one to make a quick survey of other acoustical areas Leo Beranek American Journal of Physics Vol 77 12 December 2009 The Springer Handbook of Acoustics falls into that exceptional list every physics department should have a copy available John L Hubisz The Physics Teacher Vol 48 March 2010 This handbook is an excellent addition to the acoustics literature The handbook nicely covers both basics and advances in several areas of acoustics Several chapters provide good mathematical depth making the handbook useful as a research and technical resource Overall a very useful educational and research resource Summing Up Recommended Upper division undergraduates through professionals M G Prasad CHOICE Vol 45 5 January 2008 This book covers a wide range of topics and the inclusion of musical acoustics computer and electronic music appeal to me singer song writer performer and recording studio co owner This handbook is probably well suited for an undergraduate level introduction to an acoustics course The wide range of topics inclusion of music related chapters eye pleasing presentations and other useful features make this a very good book to have on your shelf Tim Casey International Journal of Acoustics and Vibration Vol 13 1 2008 The Springer Handbook of Acoustics comprises 28 chapters written by 33 authors The Handbook of Acoustics is useful as a source book for anyone who needs or wants to become familiar with the jargon and issues related to a specific subfield of acoustics Robert I Odom Siam Review Vol 50 3 2008 The Springer Handbook of Acoustics reviews the most important areas of acoustics with emphasis on current research The authors of the various chapters are all experts in their fields Each chapter is richly illustrated with figures and tables The latest research and applications are incorporated throughout e g computer recognition and synthesis of speech physiological acoustics psychological acoustics thermoacoustics diagnostic imaging and therapeutic applications and acoustical oceanography This new edition of the Handbook features over 13 revised and expanded chapters new illustrations and 3 new chapters covering microphone arrays acoustic metamaterials and acoustic emission These improvements will make the handbook even more useful as a reference and a guide for researchers and students in every branch of acoustics

Building Acoustics And Vibration: Theory And Practice Osama A B Hassan, 2009-06-24 As a comprehensive reference dedicated to sound and vibration in buildings Building Acoustics and Vibration addresses the basic and advanced principles that can be used to solve practical and theoretical problems typically encountered in building and architectural acoustic practices In addition physical and mathematical concepts are introduced and developed sufficiently to make this publication a self contained and up to date source of information for readers Building Acoustics and Vibration is a must have textbook for engineering students engineers and consultants involved in the sound vibrations and building environment With comprehensibility and versatility in the presentation of knowledge this highly anticipated publication will easily fill the gap in the literature of building engineering and sciences which presently lacks an authoritative guide on the theoretical and practical aspects of building acoustics and vibration

Facilities Engineering Handbook United States. National Aeronautics and Space Administration, 1974

Architectural Acoustics William J. Cavanaugh, Joseph A. Wilkes, 1999

Comprehensive up to date coverage of principles materials and technologies Architectural Acoustics provides the vital information that architects engineers and all concerned with the built environment need to control and direct wanted or unwanted sounds within and around buildings A team of internationally recognized experts presents the very latest information on acoustical materials technologies design criteria and methods for a wide variety of applications including airports and other transportation facilities theaters churches and concert halls classrooms lecture halls and libraries music practice rooms and recording studios sports venues and all types of residential commercial and industrial buildings This comprehensive reference is one of the few books of its kind to include richly detailed case studies that demonstrate real world applications of acoustic principles materials and methods Nearly two hundred photos and illustrations further elucidate specific principles applications and techniques Topics covered include Basic principles of architectural acoustics Acoustical materials and methods Building noise control applications **Sound & Vibration 2.0** David Sykes,2012-08-30 This book features comprehensive practical and measureable guidelines for all aspects of acoustics in the design construction and evaluation of all types of healthcare facilities including large general hospitals and specialized patient care facilities **Noise Control and the Public** Gilles A. Daigle,Michael R. Stinson,1992 **Appendices A-N** Westinghouse Electric Corporation. Special Energy Systems,1974

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