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FIGURE 301 Schematic diagrams of vibration isolation systems: (A) vibration isolation where motion  $u$  is imposed at the foundation and motion  $x$  is transmitted to the equipment; (B) vibration isolation where force  $F$  is applied by the equipment and force  $F_T$  is transmitted to the foundation

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In analyses involving shock and transient vibration, it is essential in most instances to begin with the time-history of a quantity that describes a motion, usually dis- 8434\_Harris\_08\_bqxd 09/20/2001 11:19 AM Page 81 LINEAR, UNDAMPED, SINGLE DEGREE-OF-FREEDOM SYSTEMS

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Acoustics • Shock • Vibration Order Cyril M Harris, Shock and Vibration Handbook from Amazon Description: Widely used as the most authoritative and comprehensive reference work on shock and vibration in print, this mechanical engineering classic has undergone major revisions This edition now devotes more pages to the latest

### **I Vibration," published in 1960**

2 Gaberson and Chalmers, Modal Velocity as a Criterion of Shock Severity, Shock and Vibration Bulletin, Naval Research Lab, December 1969 3 H Gaberson, Using the Velocity Shock Spectrum for Damage Potential, SAVIAC, 74th Symposium, San Diego, CA, 2003 4 H Gaberson, An Overview of the Use of the Pseudo Velocity Shock Spectrum, Space

### **12. VIBRATION ISOLATION - unipr.it**

12 VIBRATION ISOLATION 121 Introduction High vibration levels can cause machinery failure, as well as objectionable noise levels A common source of objectionable noise in buildings is the vibration of machines that are mounted on floors or walls Obviously, the best place to mount a vibrating machine is on the ground floor Unfortunately (but

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NASA-HDBK-7005 March 13, 2001 i FOREWORD This handbook is approved for use by NASA Headquarters and all field centers and is intended to provide a common framework for consistent practices across NASA programs

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According to Piersol and Paez in Harris' Shock and Vibration Handbook, shock is defined as a dynamic excitation of a physical system with a relatively short duration as compared to the time required for the system exposed to that excitation to fully respond (see the References section)

### **UNIFIED FACILITIES CRITERIA (UFC)**

Vibration Criteria for Sensitive Equipment in Buildings 2-8 2-6 Vibration Acceleration Levels of a Large Vibrating Surface that Will Produce Radiated Sound Levels 2-9 Into a Room Approximating the Sound Levels of the NC Curves 3-1 Approximate Relationship Between Relative Sound Pressure Level (REL SPL) and Distance to a Sound 3-2

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**SHOCK RESPONSE SPECTRUM TESTING FOR COMMERCIAL ...**

Irvine, An Introduction to the Shock Response Spectrum, Vibration datacom Publications, 1998 3 C Harris, Shock and Vibration Handbook 4 th ed, McGraw-Hill, New York, 1996 APPENDIX A ADDITIONAL SHOCK TEST METHODS Drop Shock A drop shock is a free-fall shock The test item is released from a resting position at some predetermined

**Mechanical Vibrations: Applications to Equipment**

Books 11 -Mechanical Vibration and Shock Analysis, volumes 1-5 C Lalanne ISTE Ltd, London and John Wiley & Sons, New York 12 - Shock and Vibration Handbook, volumes 1-3 C Harris and C Crede McGraw-Hill, New York 13 - Shock and Vibration Engineering, volume 1 CT Morrow John Wiley & Sons, New York 14 - structural Dynamics in Industry A Girard and N Roy

**MACHINE MOUNTING FOR VIBRATION ATTENUATION ...**

MACHINE MOUNTING FOR VIBRATION ATTENUATION Revision B By Tom Irvine Email: tomirvine@aolcom Vibration attenuation for hand-held power tools will be covered in another report 2 Harris, Shock and Vibration Handbook 4th ed, McGraw-Hill, New York, 1996

**MCE371: Vibrations - Cleveland State University**

Harris, CM and Crede, Ch (editors), Shock and Vibration Handbook, Mc Graw-Hill, 2nd Edition This chapter of the course is just an overview of techniques and equipment for vibration measurements More detailed studies of vibration measurement are carried out in MCE380: Measurements and

**Ralph E. Blake - Cooper Union**

BASIC VIBRATION THEORY Ralph E Blake INTRODUCTION This chapter presents the theory of free and forced steady-state vibration of single 8434\_Harris\_02\_bqxd 09/20/2001 11:37 AM Page 21 opposite to the force acting on the other endThe constant of proportionality  $k$  is the