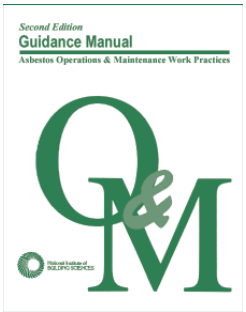
INSTITUTE PUBLICATIONS - 2009

The publications and resources listed in this catalog are available from the **National Institute of Building Sciences (NIBS)**. NIBS is a non-governmental, non-profit organization designed to improve the nation's building regulatory process, facilitate the development and use of beneficial technologies and practices, assemble and disseminate technical information, and conduct needed building science investigations and research. The recommendations found in many of these documents are often arrived at through a consensus of broad-based building interests serving on NIBS project committees.

Order publications online at www.nibs.org

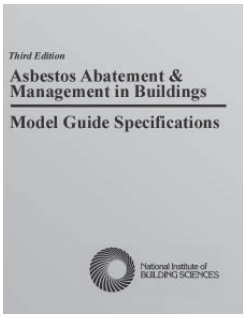
CONTROL OF ASBESTOS HAZARDS:



Guidance Manual, Asbestos Operations & Maintenance Work Practices, *Second Edition*

This technical procedures manual provides detailed guidance to building owners, asbestos program managers, and operations and maintenance (O&M) workers for managing asbestos-containing materials (ACM) in buildings. The O&M Manual addresses four different types of ACM found in buildings and three different levels of precaution, which may be warranted by specific building conditions. It presents guidance for a range of common operations and maintenance procedures, which enables owners to efficiently meet applicable regulations and the desired levels of protection in varying building conditions. A regulatory appendix summarizes key regulations (OSHA, EPA, & DOT) affecting asbestos O&M work. This document serves as a companion to he U.S. Environmental Protection Agency's (EPA) "Managing Asbestos In-Place: A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials" (a.k.a. "The Green Book") which provides guidance on how to organize and structure O&M programs. NIBS developed this O&M Manual in cooperation with EPA and the U.S. General Services Administration (GSA). This document is also available in electronic format. See details below.* [465 Pages/1996]

O&M MANUAL printed copy only: Catalog No. 5185-6 Member Price: $110 Non-Member Price: $145
O&M MANUAL with electronic version: Catalog No. 5187-8 Member Price: $170 Non-Member Price: $205



Asbestos Abatement and Management in Buildings, Model Guide Specifications, *Third Edition*

This technical guidance document provides authoritative advice and guidance in the design and execution of abatement of asbestos-containing materials (ACM). It serves as an improved tool for design professionals, contractors, building owners and others maintaining and repairing, enclosing, encapsulating or removing ACM. This third edition incorporates regulatory changes concerning asbestos work and contains specification sections on [1] abatement of asbestos containing roofing and [2] dealing with mixed hazardous wastes. A regulatory appendix summarizes key regulations (OSHA, EPA, & DOT) affecting asbestos O&M work. The Model Guide Specifications is a consensus document that reflects the knowledge and experience of the nearly 100 members of the Institute's asbestos project committee who assisted in the development of the guide. First published in 1986, this manual now includes developments in products, equipment, regulations, and procedures; sections on abatement of asbestos containing resilient flooring; and an 80-page Introduction and Instructions for Use which: facilitates a more effective use of the Model Guide; includes instructional information for evaluating, selecting and coordinating a qualified design team; developing, organizing and coordinating contract documents; assembling proper bidding packages; successfully negotiating, administrating and closing out abatement contracts; conducting safe abatement in occupied buildings and managing liability; and clearly outlines the responsibilities of the owner, the design team and the contract. This document is also currently only available in electronic format. [465 Pages/1996]

MODEL GUIDE SPECIFICATIONS electronic version only: Catalog No. 2606 Price: $75

National Institute of Building Sciences
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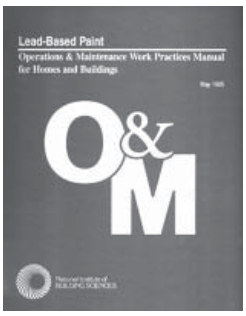
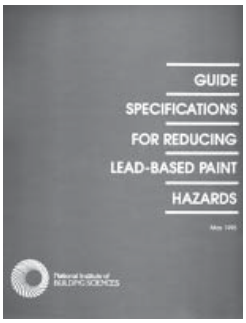
CONTROL OF LEAD-BASED PAINT HAZARDS:



Lead-Based Paint Operations & Maintenance Work Practices Manual for Homes and Buildings

This technical procedure manual provides detailed guidance to homeowners, custodial and O&M workers, maintenance supervisors, and building owners for performing work where lead-based paint is, or may be, present. It also provides practical, specific guidance in an important environmental area where laws and regulations are rapidly evolving at the federal, state, and local level. The O&M Manual addresses a range of situations in which operations and maintenance activities are routinely performed in buildings whether or not lead is present. It addresses three different levels of precaution, which may be warranted by specific building conditions and by the amount of potentially lead-contaminated dust and debris, which may be generated by the activities. NIBS developed this document in cooperation with the U. S. Department of Housing and Urban Development. Also available in electronic format. See details below.* [May, 1995/195 Pages]

LBP O&M MANUAL printed copy only: Catalog No. 5407-8 Member Price: $70 Non-Member Price: $105
LBP O&M MANUAL with electronic version: Catalog No. 5409-0 Member Price: $120 Non-Member Price: $155



Guide Specifications for Reducing Lead-Based Paint Hazards

This technical guidance document provides building owners and their representatives guidance in purchasing services for reducing lead-based paint (LBP) hazards. It addresses LBP inspection, risk assessment, interim controls and abatement of LBP in buildings in the context of a stand-alone project and as part of a larger renovation project. This document contains advice and guidance on the development of specifications and technical information on LBP hazard reduction and presents users with a range of choices and guidance for applying the guide specification to specific project conditions. It conforms to the U.S. Department of Housing and Urban Development (HUD) Guidelines for The Evaluation and Control of Lead-Based Paint Hazards in Housing, current Environmental Protection Agency (EPA) regulations and guidance documents, Occupational Safety and Health Administration (OSHA) regulations and other federal regulations and guidance documents affecting LBP hazard reduction. The Guide Specifications address state regulations by example and provides guidance on how to find specific state regulations. This document is also available in electronic format. See details left.* [May, 1995/500 Pages]

LBP GUIDE SPEC printed copy only: Catalog No. 2507-8 Member Price: $115 Non-Member Price: $145
LBP GUIDE SPEC with electronic version: Catalog No. 2500-10 Member Price: $175 Non-Member Price: $210

***ELECTRONIC FORMATS AVAILABLE:** These asbestos and lead-based paint documents are also available in electronic format on compact disc (CD) for use on Windows based computers in WordPerfect, Microsoft Word, and ASCII text formats. Please specify CD when ordering these documents with the electronic version. CDs and diskettes are not sold separately.

CONSTRUCTION METRICATION:

Metric Guide for Federal Construction

This publication is designed to help the construction industry comply with federal metric procurement requirements. Since September 30, 1992 agencies of the federal government have been required to use the metric system of measurement, to the extent feasible, in all procurement, grants, and business-related activities. Included is an introduction to the metric system, a primer on metric usage, instruction on metric document preparation, and guidance on metric management and training. [34 Pages/1991]

Catalog No. 5071-2 Member Price: $12 Non-Member Price: $15

Preferred Metric Numbers for Building Construction *(with an Appendix on Dimensional Coordination in Building)*

This publication contains material excerpted from NBS Technical Note 990, The Selection of Preferred Metric Values for Design and Construction (published in 1978 and now out of print) as well as information on the Renard Series of preferred numbers, which has been adopted by the International Standards Organization (ISO) and is the most commonly used series worldwide for sizing products in metric units. An appendix includes information on the dimensional coordination of building measurements, products, and assemblies. [33 pages/1995]

Catalog No. 5119 Price: $12

Nine Metric Construction Case Studies, Preliminary Assessment

This report presents an assessment of nine federal metric construction projects. It includes information on costs and other design and construction issues, write-ups on each of the nine projects, and an overview of Canada's construction metrication experience. [27 Pages/1996]

Catalog No. 5214-5 Member Price: $12 Non-Member Price: $15

Metric Design Guide, General Services Administration

This official General Services Administration design guide contains practical architectural, civil, structural, mechanical, and electrical design information, information on available metric building materials, and related reference materials. [46 Pages/1996] **Catalog No. 5090-1**

Price: $8; $5 with purchase of Metric Guide for Federal Construction

M2: Metric Design Guide, Third Edition, *General Services Administration, Philadelphia Region*

This document is similar to the above GSA guide but it is written more informally and contains additional information on project management, design, and metric building materials and suppliers as well as sample drawing details and road design data. [106 Pages/1993]

Catalog No. 5110-1 Price: $12; $9 *with purchase of above GSA Metric Guide*

Excellence in Facilities Management: Five Federal Case Studies

A study of five remarkable buildings performed by NIBS' Facility Maintenance & Operations Committee to find out what constitutes "better" buildings. Case Studies reveal how planning, designing, constructing and operating buildings with an emphasis on what they will cost over their entire life cycle, including costs for energy, cleaning, maintenance and repair, results in not only less expensive buildings, but better buildings. The five facilities studied are successful because the people involved borrowed good ideas from colleagues and were smart enough to know when they needed help. This document shares their success and wisdom with a larger audience. [64 Pages/1998]

Catalog No. 5600-1 Member Price: $12.50 Non-Member Price: $15

Research Recommendations

This report is the sixth iteration in a continuing cooperative effort between the National Institute of Standards and Technology's Building and Fire Research Laboratory and NIBS. It represents the exchange of information and ideas between the research sector and other building sectors. The detailed research recommendations were developed through subcommittees made up of volunteers with extensive expertise in environment, fire research, materials, and structures. Each project listing provides a short description of the suggested research area, the committee's commentary and evaluation, and the name and telephone number of the project contact. The report is used by NIST in its long-range planning and identification of funding requests. [106 Pages/1994]

Catalog No. 5069-0 Member Price: $10 Non-Member Price: 12.50

Building Product Approval and Acceptance Process

A report on the building product approval and acceptance practices in the United States. The study addresses fundamentals of effective building product approval processes. It contains recommendations by the Institute's 140-member building product approval project approval process through effective self and third party certification, listing, labeling and marking programs. [209 Pages/1987]

Catalog No. 5022-3 Member Price: $25 Non-Member Price: $30

Land-Use Regulations Handbook

A monograph on land-use guidelines for increasing the supply of affordable housing through strategies for zoning, comprehensive planning, plan review techniques, residential density, residential streets, water, sewer and storm water management, financing infrastructure and designing for sensitive sites and soil erosion control. This Handbook is for use by local planning commissioners, developers, architects, builders, and elected and appointed officials. [88 Pages/1990]

Catalog No. 5093 Price: $10

Strategies & Approaches for Implementing a Comprehensive Program to Mitigate the Risk of Lifelines From Earthquakes & Other Natural Hazards

Lifelines are what society relies on heavily to provide it with energy and water and facilitate transportation and communication. This report to the Federal Emergency Management Agency (FEMA) identifies activities that lifeline and natural hazard reduction experts believe should be initiated to launch a nationwide program to begin to better protect the nation's lifelines. [59 pages/1989]

Catalog No. 5047-8 Member Price: $7 Non-Member Price: $11

Hospital User Manual Series Guidelines

Model Manuals to Guide Hospital/Building Start-Up. These manuals were developed to improve the useful documentation of important technical information about complicated building systems decisions made during the design/construction process. They help facilitate the transfer of information from the design and construction team to those who use, operate, and maintain complex medical facilities. The manuals serve as scopes-of-work from which to develop specific manuals and address the practical needs of new facilities and those of additions to, and renovations of, existing structures. Volume 1: Model Facility Description and Documentation Manual; Volume 2: Start-Up Manual; Volume 3: Operations Manual; Volume 4: Maintenance Manual [4 Volumes/218 Pages/1988]

Catalog No. 5039-0 Member Price: $80 Non-Member Price $85

HHS/CABO/NFPA CodesStudy Report

NIBS report on the nation's three model code systems after Congress mandated that all institutional health care facilities receiving federal funds provide adequate fire safety protection for patients and personnel. NIBS' committee concluded that the codes, 1988 editions and newer, protected occupants in new health care facilities to at least the same extent as the 1988 Life Safety Code; that existing health care facilities complying with the new construction criteria and maintained in accordance with the model codes protect occupants to at least the same extent as the Life Safety Code; and that with respect to operations and maintenance, the model codes protect occupants of health care facilities to at least the same extent as the 1988 Life Safety Code with certain exceptions. [120 Pages/1993]

Catalog No. 5098-9 Member Price: $20 Non-Member Price: $25

Residential Technologies for Elderly People and People with Disabilities: Issues in Innovation, Regulation, and Implementation

A background paper based on two workshops held in 1995 by the Office of Technology Assessment (OTA) in response to Senate requests directing the examination of the impact of federal codes and regulations on residential environments for elderly people and people with disabilities. Workshop participants were asked to describe technologies and innovations in residential care facilities, to discuss the effects of regulations on both innovation and on the well-being of residents, and to provide examples that could serve as models for change. This paper reflects the observations, experiences, and opinions of workshop participants and OTA's past experience in issues related to housing and devices for elderly people and people with disabilities. [57 Pages/1996]

Catalog No. 5165-6 Member Price: $12 Non-Member Price: $15

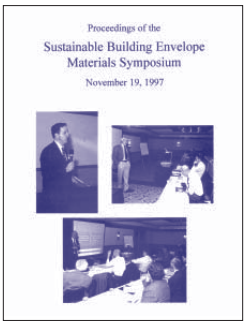
Wood Protection Guidelines, Protecting Wood From Decay Fungi and Termites

A broad range of options for protecting wood structures from damage and thereby significantly reducing the cost of repairs. Identifies and describes the options available to protect existing and new residential and commercial wood structures from decay, fungi, and termites. Specific details on the use of treated wood, soil treatments, naturally durable species, suitable construction techniques, and appropriate maintenance practices that will prevent damage are included. A broad range of options to permit the most appropriate selection of protection techniques suitable to the geographic location, the site, and the type of construction is provided. [53 Pages/1993]

Catalog No. 4010-1 Member Price: $10 Non-Member Price: $15

ENERGY AND BUILDING ENVIRONMENT:

Sustainable Building Envelope Materials Symposium II



These are the proceedings of the June 7, 2000, symposium held in response to the growing interest in using sustainable materials for new and existing building envelopes to reduce greenhouse gas emissions and global warming, and enhance sustainable economic development. [104 pages/2001]

Catalog No. 3021 **Price: $30.00**

Sustainable Building Envelope Materials

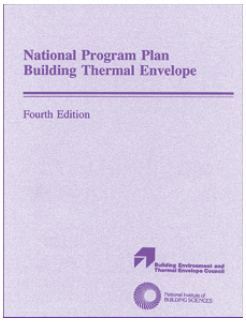
Proceedings of the November 19, 1997, symposium addressing emerging technologies in sustainable building envelope materials. Paper titles: Insulation Materials and the Environment: An Overview; Sustainability and the Building Codes; Self-Supporting Wall Insulation Retrofit - A New Technology from DOE; Sustainable Non-Conventional Insulation Materials; The European Experience with Sustainable Envelope Materials; Specifications for a Green Building in Berlin, Germany; Thermal Performance of Structural Insulated Panels in a Manufactured Building; Synthetic Vitreous Fiber Insulation: Combating Climate Change and Supporting Sustainability; Cellulose Insulation, Sustainability and Latest Developments; and Sustainable Building Materials. [100 Pages/2000]

Catalog 3020 **Price: $25**

Superinsulations and the Building Envelope

Proceedings of the November 14, 1995, symposium on evacuated superinsulation concepts and their potential applications to the building envelope. Includes 11 technical papers with charts, tables and illustrations, and a summary of the Q&A forum and illustrations of the tabletop display on vacuum insulation panels using recycled urethane fluff. [180 pages/1995]

Catalog No. 3016-7 **Member Price: $45** **Non-Member Price: $55**



National Program Plan: Building Thermal Envelope Fourth Edition

The National Program Plan, Version 4 (NPP4) describes high priority research areas and represents a 3-year effort to achieve a consensus of the building community's industry sector. Categories: Whole Buildings, Fenestration, Walls, Foundations, Roofs, and Indoor Air Quality. A separate appendix chronicles all research recommendations and reviewer comments. The NPP4 was sponsored by the U.S. Department of Energy through Oak Ridge National Laboratory to help DOE select funding priorities for enhancing the energy efficiency of buildings and to increase dialogue between the research community and those who specify products and systems in the envelope. [1993]

Catalog No. 3013 **Price: $20** **NPP4 with Appendix C Catalog No. 3015 Price: $40**

Bugs, Mold & Rot II

Proceedings of a November 1993, workshop on control of humidity for health, artifacts, and buildings. Document includes schematics, charts, and other illustrations. Topics covered include: humidity and building materials, humidity and fungal contaminants, relative humidity in museums, galleries, and archives, a search for moisture sources, crawl spaces: regulations, research and results, humidity control in the humid south, humidity control in northern climates, and energy efficient dehumidification technology. [151 Pages/1994]

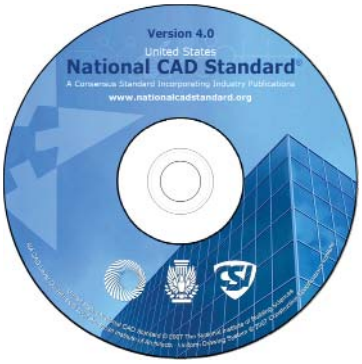
Catalog No. 3010 **Price: $35**

Bugs, Mold & Rot

Proceedings of a 1991 workshop on residential moisture problems, health effects, building damage, and moisture control. Issues addressed are: the ideal relative humidity for the house envelope, for the inside space, for the contents, for people, and for other living things in a house; the best strategy for controlling humidity; situations in the house that contribute to the spread of disease-causing organisms; and the relationship between humidity, construction practices and the infestation of insects; effective ventilation, how a ventilation system should be designed to provide effective ventilation, the connections between humidity levels and the health of occupants, and actions the federal and state government should take. [71 Pages/1991]

Catalog No. 3009 **Price: $25**

SET: Bugs, Mold & Rot and Bugs, Mold & Rot II **Catalog No. 3012** **Price: $50**



PRICES:

Single License:
Base Price: $410

Site License (2-10 Users)
Base Price: $1,050

Enterprise License (10+ Users) Base Price: $2,800

United States National CAD Standard, Version 4.0 - Available for Download from www.nationalcadstandard.org

The **United States National CAD Standard** streamlines and simplifies the exchange of building design and construction data from project development throughout the life of a facility. It coordinates the efforts of the entire industry by classifying electronic building design data consistently allowing streamlined communication among owners and design and construction project teams. Use of the National CAD Standard can reduce costs and produce greater efficiency in the design and construction process. NIBS' Facility Information Council formed the national consensus committee that created the standard. The project committee thoroughly reviewed and commented on the constituent documents, resolved discrepancies between the documents, and ensured full integration of the Standard.

The latest edition provides the following improvements on Version 3.1:

- Expanded and reorganized *CAD Layer Guidelines* make it easier to locate layer names, including new telecommunications and electrical discipline layer names.
  - Appendix A added with all groups and fields alphabetized into one easy to read list.
  - Disciplines and lists alphabetized.
  - Telecommunications discipline contains new items as well as many that were moved from the Electrical discipline.
  - Major and Minor group definitions made more generic to allow broader usage.
  - Major and Minor group abbreviations coordinated with UDS section of NCS.
  - Civil Works discipline deleted.
- Updated *Uniform Drawing System* includes new and revised symbols for geotech, security, fire suppression, masonry, plaster and other areas. Common drawing practices also have been updated and clarified.
  - Abbreviated sheet identification eliminated.
  - Dash after Level 2 discipline designator eliminated.
  - Level 2 discipline designators for model file names are now allowed.
  - Required location for drawing area coordinates revised.
  - Clarified user-defined north arrows.
  - New symbols—geotech, security, fire suppression, and elevation target.
  - Use of arrowheads for dimension terminators if used throughout the drawing set allowed.
  - Revised symbols—masonry, plaster, and elevation indicator.
  - Option to repeat text description appearing next to reference keynote symbols eliminated.
- Completely re-written *Plotting Guidelines* reflect that line widths are no longer required to be mapped to color numbers.
  - Color to line weight removed
  - New tables—gray scale table, color table, line width table.

Version 4.0 now includes PDF, Excel and .dwg files making it easier to search and integrate the standard into your CAD, BIM, costing, and other software.

Whole Building Design Guide (WBDG) and Construction Criteria Base (CCB)

The Whole Building Design Guide (WBDG) is a comprehensive, Internet-based portal to a wide range of federal and private sector, building-related guidance, criteria & technology. It creatively links information across traditional professional disciplines to encourage integrated thinking and a "whole building" performance. Users can access WBDG information via: 1) Design Criteria, 2) Building Occupancy Types, and 3) Products & Systems. Through the categories, users are directed to an industry/government prepared topical resource pages that provides information and links to federal and private criteria on the particular subject. The WBDG goal "...to provide a web portal for the uniform access and use of facility information in a knowledge based management environment" is achieved by providing users of the portal a single point access to public and private sector criteria through the Construction Criteria Base (CCB) library.

The Construction Criteria Base (CCB) is a comprehensive online library of over 12,000 design criteria, other construction documents and executable programs from federal and private organizations. CCB brings together guide specifications, technical & design manuals, fed/mil specs, regulations, CADD libraries, federally adopted private standards and much more, from a single online source, the WBDG. CCB is accessible from the WBDG portal www.wbdg.org.our agreements with the source organizations, they can be used on only one computer, not on a network, and they cannot be printed or transferred to disk.

For more information, visit the WBDG website at www.wbdg.org

HAZUS®MH

HAZUS®MH is a nationally applicable methodology and software program used to estimate potential losses from floods earthquakes and hurricanes. The National Institute of Building Sciences (NIBS) develops HAZUS®MH under contracts with the Federal Emergency Management Agency (FEMA). Loss estimates produced by HAZUS®MH are based on current scientific and engineering knowledge. They are essential to decision-making at all levels of government, providing a basis for developing mitigation plans and policies, emergency preparedness, and response and recovery planning.

HAZUS®MH uses state-of-the-art geographic information system software (ArcGIS) to map and display hazard data, and the results of damage and economic loss estimates for buildings and infrastructure. It also allows users to estimate impacts on populations. HAZUS®MH is fast running to facilitate use in real time to support response and recovery following a natural disaster.

The HAZUS®MH Flood Model is capable of assessing riverine and coastal flooding. It estimates potential damage to all classes of buildings, essential facilities, bridges, vehicles, and agricultural crops. The model addresses building debris generation and shelter requirements. Direct losses are estimated based on physical damage to structures, contents, and building interiors. The effects of flood warning are taken into account, as are flow velocity effects. The Flood Information Tool (FIT), released in July 2002, allows users to prepare local flood hazard and other pertinent data for use in the HAZUS®MH Flood Model.

The HAZUS®MH Earthquake Model, an updated version of HAZUS99-SR2, continues to provide loss estimates of damage and loss to buildings, essential facilities, transportation lifelines, and utility lifelines, and population. The model addresses debris generation, fire-following, casualties and shelter requirements. Direct losses are estimated based on physical damage to structures, contents, inventory, and building interiors. It also includes the Advanced Engineering Building Module for single building mitigation analysis.

The HAZUS®MH Hurricane Model allows users in the Atlantic and Gulf Coast regions of the U.S. to estimate hurricane winds and potential damage and loss to residential, commercial, and industrial buildings. It also allows users to estimate direct economic loss, post-storm shelter needs, and building and tree debris quantities.

For more information, visit www.nibs.org/hazusweb. All HAZUS®MH products are provided by the Federal Emergency Management Agency free-of-charge.

AMERICAN LIFELINES ALLIANCE:

The American Lifelines Alliance (ALA) is a public-private partnership with the goal of reducing risks to lifelines (utility and transportation systems) from a variety of natural hazards and manmade threats. NIBS manages the ALA with funding from the Federal Emergency Manage-ment Agency (FEMA) of the Department of Homeland Security. The ALA documents are available on the ALA Website (www.americanlifelinesalliance.org) under the "New Guidelines" page.

- Guidelines for Utility Performance Assessment:
  - Electric Power Systems Guidelines and Commentary **REVISED!**
  - Oil and Natural Gas Pipeline Systems Guidelines and Commentary
  - Wastewater Systems Guidelines and Commentary
- Flood-Resistant Local Road Systems: A Report Based on Case Studies
- Evaluation Guide for the Seismic Operability of Active Mechanical Equipment
- Report on Extreme Ice Thicknesses from Freezing Rain
- Design Guideline for Seismic Resistant Water Pipeline Installations
- USGS ShakeMap / ShakeCast Report: Improving Utilization Within the ALA Community
- AREMA Handbook for Railway Storm Scour
- Seismic Design Standards for Aboveground Steel Storage Tanks
- Guideline for the Seismic Design and Retrofit of Piping Systems
- Design Guideline for Buried Steel Pipe
- Seismic Fragility Formulations for Water Systems

SEISMIC SAFETY AND HAZARD MITIGATION:

New Buildings Publications

- *The NEHRP (National Earthquake Hazards Reduction Program) Recommended Provisions for Seismic Regulations for New Buildings and Other Structures,* 2003 Edition, CD including maps, FEMA 450
  (Part 1 Provisions, Part 2 Commentary)
- *The NEHRP (National Earthquake Hazards Reduction Program) Recommended Provisions for Seismic Regulations for New Buildings and Other Structures,* 2000 Edition, 2 volumes and maps, FEMA 368 and 369
- *The NEHRP (National Earthquake Hazards Reduction Program) Recommended Provisions for Seismic Regulations for New Buildings and Other Structures,* 1997 Edition, 2 volumes and maps, FEMA 302 and 303
- *Guide to Application of the 1991 Edition of the NEHRP Recommended Provisions in Earthquake Resistant Building Design,* Revised Edition, 1995, FEMA 140 - new edition reflecting the 2000 NEHRP Recommended Provisions expected to be published by mid-2002
- *A Nontechnical Explanation of the NEHRP Recommended Provisions,* Revised Edition, 1995, FEMA 99 - new edition reflecting the 2000 NEHRP Recommended Provisions expected to be published by mid-2002
- *Seismic Considerations for Communities at Risk,* Revised Edition, 1995, FEMA 83
- *Seismic Considerations: Elementary and Secondary Schools,* Revised Edition, 1990, FEMA 149
- *Seismic Considerations: Health Care Facilities,* Revised Edition, 1990, FEMA 150

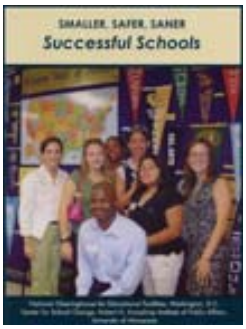
Existing BuildingsExisting Buildings

- *NEHRP Guidelines for the Seismic Rehabilitation of Buildings: Commentary,* 1997, FEMA 274
- *Case Studies: An Assessment of the NEHRP Guidelines for the Seismic Rehabilitation of Buildings,* 1999, FEMA 343
- *Planning for Seismic Rehabilitation: Societal Issues,* 1998, FEMA 275
- *Example Applications of the NEHRP Guidelines for the Seismic Rehabilitation of Buildings,* 1999, FEMA 276
- *NEHRP Handbook of Techniques for the Seismic Rehabilitation of Existing Buildings,* 1992, FEMA 172
- *NEHRP Handbook for the Seismic Evaluation of Existing Buildings,* 1992, FEMA 178
- *An Action Plan for Reducing Earthquake Hazards of Existing Buildings,* 1985, FEMA 90

MultihazardsMultihazards

- *An Integrated Approach to Natural Hazard Risk Mitigation,* 1995, FEMA 261/2-95

These publications are published by NIBS' BUILDING SEISMIC SAFETY COUNCIL (BSSC) and available FREE from the Federal Emergency Management Agency (FEMA) by calling 1-800-480-2520. Reference FEMA Publication Number when ordering. For detailed information about the BSSC and its projects, visit www.bssconline.org.



Smaller, Safer, Saner Successful Schools, 2007

Provides a summary of research on small schools and shared facilities showing that, on average, smaller schools provide a safer and more challenging school environment that leads to higher academic achievement and graduation rates, fewer disciplinary problems, and greater satisfaction for families, students, and teachers. Also includes 22 case studies of public schools in 11 states, representing urban, suburban, and rural communities; district-run and charter public schools; and co-housing of almost 50 schools and social service agencies. [68 pages/2007]

Price: $15.00

Designing Smarter Schools, Video

This 30-minute video, which won a coveted Telly Award, shows how school buildings can be improved and how student academic achievement can be heightened through a host of innovative design and renovation techniques. This production features comments from Larry Schoff of the U.S. Department of Energy's Rebuild America program and John B. Lyons of the U.S. Department of Education.

Price: $10.00

Report from the National Summit on School Design: A Resource for Educators and Designers

Presents the results of the 2005 National Summit on School Design, convened by the American Architectural Foundation and KnowledgeWorks Foundation. The report details eight recommendations made by Summit participants on a range of school design topics. Plans for advancing a national school design agenda are highlighted, and the results of a team exercise in solving the problems of five hypothetical school districts are included. [#NCEF46/72 pages/2006]

Price: $15.00

Schools as Centers of Community: A Citizens' Guide For Planning and Design, Second edition

Bingler, Steven; Quinn, Linda; Sullivan, Kevin

(National Clearinghouse for Educational Facilities, KnowledgeWorks Foundation, Council of Educational Facility Planners, Building Educational Success Together, Coalition for Community Schools , Dec 2003)

This book outlines a process intended to engage all educational stakeholders in planning schools that more adequately address the needs of the whole learning community. It explores six design principles for creating effective learning environments, provides 13 case studies that illustrate various aspects of the six design principles, and examines the facilities master planning process for getting started and organized, including developing and implementing a master plan. It provides references, sources for additional information, photographs and plans. [#NCEF41/76 pages/2004]

Price: $15.00

For Generations To Come: A Leadership Guide to Renewing Public School Buildings

This guide by the 21st Century School Fund provides a framework for community involvement in the complex process of modernizing or building new public school buildings. The process is broken down into the five steps of assessment, envisioning, planning, development, and implementation of the project. The chapters for each step are preceded by an overview of how facilities affect the quality of education and community, and how to initiate the process of improving a school building. Published by the 21st Century School Fund. [#NCEF45/60 pages/2004]

Price: $10.00

A Visioning Process for Designing Responsive Schools

A guide by Henry Sanoff for helping students, teachers, parents, administrators, and community members lay the groundwork for designing and building responsive, effective community school facilities. Explains the benefits of community participation and tells how to go about the process of strategic planning, goal setting, visioning, design generation, and strategy selection. [24 pages/2001]

Price: $8.00

School Building Assessment Methods

A guide by Henry Sanoff for communities considering designing a new school or expanding an existing one. The author, nationally known for his publications and teaching on school design, presents a collection of survey and discussion tools to help school administrators, teachers, students, and parents discover and reflect upon the physical features of school buildings and correctly identify what works and what doesn't. [52 pages/2001]

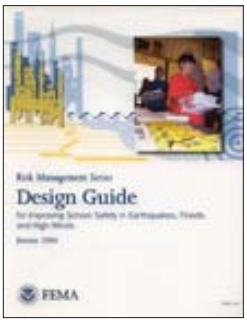
Price: $10.00

Primer to Design Safe Schools Projects in Case of Terrorist Attacks

(Federal Emergency Management Agency)

This primer provides guidance to protect students, faculty, staff, and their school buildings from terrorist attacks. It also provides guidance to the building science community of architects and engineers working for local institutions on school projects. This document is intended for use by schools who feel that they are at risk to terrorist attacks. It provides necessary guidance to those who desire to increase the performance of their school and related infrastructure. Chapters include: 1) Asset Value, Threat/Hazard, Vulnerability, and Risk; 2) Site and Layout Design Guidance; 3) Building Design Guidance and Safety Plans; 4) Explosive Blast; 5) Chemical, Biological, and Radiological Measures; and 6) Safe Rooms Within Schools. FEMA 428 | 305 pages/2003

Price: $10.00



Design Guide for Improving School Safety in Earthquakes, Floods, and High Winds

(Federal Emergency Management Administration)

Provides design guidance for the protection of school buildings and their occupants against natural hazards, concentrating on K-12 facilities. The focus is on the design of new schools, but the repair, renovation and extension of existing schools, as well as the economic losses and social disruption caused by damage from these three hazards is also addressed. Two core concepts emphasized are multihazard design, where the characteristics of hazards and how they interract are considered together with all other design demands, and performance-based design, where the specific concerns of building owners and occupants a considered over and above what is covered in the building code. Chapters 1-3 present issues common to all hazards. Chapters 4-6 cover risk management specific to earthquakes, floods, and high winds. FEMA 424 | 361 pages/2004

Price: $10.00

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- *Classrooms* [4 pages/2002]
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