

Sspc Guide 6 Containment

"This synthesis will be of interest to state DOT bridge maintenance and construction engineers; regulators, consultants, and contractors involved with the removal of lead paint from bridges and structures; and structural coatings specialists, chemists, and researchers. This synthesis describes the current state of the practice for the removal of lead-based paint from existing highway steel bridges."--Avant-propos.

Chapters cover the practical application of pollution and contaminant control technology

Standard Specifications

Bulletin

Bridge Paint

IBTTA Functional Committee Presentations

Encyclopedia of Environmental Control Technology: Volume 6

KEY FEATURES: • This technique is growing in importance. • The first comprehensive book in this subject. A practical and comprehensive account of the technology and applications of hydroblasting, a technique used more and more in the preparation of steel and other surfaces. Steel surfaces will corrode unless they are properly prepared and coated. Such corrosion can have disastrous effects (eg bridge collapse) therefore the preparation of the surface is of major importance. Due to environmental pressure to move away from grit-blasting, high-pressure water can now be used to prepare surfaces, with few environmental costs. This book systematically and critically reviews the state of current hydroblasting technology and its applications. The book is essentially

practical in nature and is written by an expert in the field.

Approximately 90% of the steel highway bridges in the United States are protected from corrosion with lead-based paints. A comprehensive study was performed to evaluate the various factors involved with lead-paint removal. Containment and ventilation systems were studied and recommendations were developed for containment materials, design of joints, design of air inputs, negative pressure, and air flow within containment. Waste disposal is a significant issue due to long-term liability and cost. Tests were performed on hazardous waste characterization, waste minimization, methods of generating non-hazardous waste, and long-term stability of lead-containing wastes and stabilized wastes. Alternate surface preparation methods and costs were evaluated. Recyclable steel abrasive was found to be cost-competitive and to reduce the amount of debris by approximately 90% compared to expendable abrasive.

Oceans 2000 MTS/IEEE

Pollution Reduction and Containment Control

Proceedings, Committee Meeting Papers

Where Marine Science and Technology Meet

Proceedings of the ... Annual Road School

Waterjet technology is used in a variety of industries including civil engineering, mining, geotechnical engineering, tunnelling, defence, construction and conservation. This book is essential reading for all those engaged in waterjet technology - from manufacturers of the equipment through to

Government Contracting Officers who let the awards, to the individual contractors and their engineers. This synthesis will be of interest to bridge painting contractors, bridge maintenance and construction engineers, environmental engineers, equipment manufacturers and suppliers, and others interested in bridge paint removal. Information is provided on current practices in bridge paint removal, containment, and disposal, with special attention paid to environmental, health, and cost issues, along with a discussion of current environmental regulations governing paint removal practices. The removal of bridge paint is a nationwide problem with sensitive environmental concerns and rapid changes in available technology and regulatory oversight. This report of the Transportation Research Board describes the current state of the practice for bridge paint removal, containment, and disposal, especially with regard to lead-based or other toxic paints. Additionally, current environmental regulations and health concerns in this area are examined.

Annual Meeting Proceedings, Selected Committee Meeting Papers

**Hydroblasting and Coating of Steel Structures
Design & Construction**

**Expanding Metropolitan Highways
Waterjetting Technology**

** Compiles all the data necessary for efficient and cost-effective highway design, building, rehabilitation, and maintenance * Includes metric units and the latest AASHTO (American Association of State Highway Transportation Officials) design codes*

With the growing concern over the environment, new industries and research areas have been developed to identify, monitor, regulate, and legislate environmental interactions as well as to determine and repair existing environmental damage. For both the expert and the newcomer, a quick, convenient, and comprehensive source is needed to answer questions on the rapidly increasing amount of environmental information. The Encyclopedia of Environmental Analysis and Remediation (EEAR) responds to this need by providing the reader with an in-depth examination of the environmental analysis and remediation fields in a single eight-volume reference source.

Maintenance Issues and Alternate Corrosion Protection Methods for Exposed Bridge Steel
Hearing Before the Subcommittee on Health and the Environment of the Committee on Energy and Commerce, House of Representatives, One Hundred Third Congress, First Session, March 3, 1993

Thermally Sprayed Metal Coatings to Protect Steel Pilings
Transactions of the American Nuclear Society
Manual of Coating Work for Light-water Nuclear Power Plant Primary Containment and Other Safety-related Facilities

Expanding Metropolitan Highways Implications for Air Quality and Energy Use -- Special Report

245 Transportation Research Board

This synthesis will be of interest to state department of transportation (DOT) bridge maintenance engineers, coating specialists, chemists, and researchers.

Manufacturers and suppliers of corrosion protection products and systems for exposed structural steel on existing bridges will also find it of interest. This synthesis describes current practice regarding maintenance and protection strategies for exposed structural steel on existing bridges. NCHRP Synthesis 251, Lead-Based Paint Removal for Steel Highway Bridges (1997), provides a complementary and more in-depth treatment of maintenance issues involving lead-based paint removal. This report of the Transportation Research Board defines the maintenance management systems and decision making criteria used by transportation agencies for maintaining exposed bridge steel. Material selection criteria, surface preparation and application practices, quality control and quality assurance programs, and funding mechanisms are discussed in detail. The impact of recent and proposed environmental and worker protection regulations on current practice is reported. Information for the synthesis was collected by surveying state transportation agencies and by conducting a literature search. Responses to the survey, Appendix C to this document, are published on the Internet as NCHRP Web Document 11.

Board of Contract Appeals Decisions

Lead-based Paint

Annual Meeting

Development of an Occupational Air Contaminant

Exposure Monitoring and Control Strategy with

***Application to Lead Exposure During Bridgework
Highway Engineering Handbook, 2e***

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best practices, rationales, and case studies.

Design News

Materials Performance

Final Report and Guide

Encyclopedia of Environmental Analysis and Remediation