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Books

Additional Resources in MSEL Suspension Bridges and Othmar Ammann

Title: Bridging New York [video recording] produced by Great Projects Film Company, Inc. written and produced by Daniel A. Miller.

MSEL Call Number Eisenhower AV Center Video A5671

Title: George Washington Bridge [video recording] crossing the Hudson / Mark Daniels and Kaye Wise Whitehead; Metro Channel L.L.C.

MSEL Call Number Eisenhower AV Center Video A6055

Title: Six bridges: the legacy of Othmar H. Ammann / Darl Rastorfer.

MSEL Call Number Eisenhower Stacks TG25.N5 R37 2000 QUARTO

Tips on finding these and more books on structures in the MSEL.

<http://www.library.jhu.edu/researchhelp/engr/structures/books.html>

Journal Articles

Title: Planning and design of Verrazano Narrows bridge By Ammann, OH

In: Transactions of the New York Academy of Sciences

V. 25 n 6 1963 p 598

MSEL Call Number Libraries Service Center Q11.N56

Database: Compendex

Title: Unusual design problems - 2nd Tacoma narrows bridge - discussion By Ammann, OH

In Transactions of the American Society of Civil Engineers

V 114 1949 p 970- 978

MSEL Call Number Gillman TA1.A5

Database: Compendex

Title Design and stress condition By: Ammann, OH

In: Transactions of the American Society of Civil Engineers

V 112 1947 p 203-219

MSEL Call Number Gilman TA1.A5

Database: Compendex

Title: The Eads Bridge Saint Louis, Missouri [by] Howard Smith

In: Journal of the Society of Architectural Historians

Dec., 2000 v.59, n.4, p.559-564

MSEL Call Number Eisenhower Stacks NA1.A75

Database: Avery Index to Architecture

Also available on [JSTOR](#)

Title: For beauty's sake. Subject: Ammann, Othmar Hermann, 1879-1965

In: American Institute of Architects. Journal 1966 Dec., v. 46, n. 6, p. [52]-54.

MSEL Call Number Libraries Service Center NA11.A3

Database: Avery Index to Architecture

Title: Bayonne Bridge over Kill Van Kull.
In: Architectural record 1932 Dec., v. 72, p. 361-365.
MSEL Call Number Gilman Stacks NA1.A72
Database: Avery Index to Architecture

Title: LONG-SPAN SUSPENSION BRIDGES: THE AMERICAN APPROACH.
In: Annals of the New York Academy of Sciences
Volume: v 352 1980 p 27-39
Abstract: Progress made in the field of design and construction of long-span suspension bridges in the United States is presented. Emphasis during the discussion is on Verrazano-Narrows, Severn, Newport, and Chesapeake Bay Bridges.
MSEL Call Number Q11.N55 no. 352
Database: Compendex

Title: Theory and history of suspension bridge design from 1823 to 1940
In: Journal of Structural Engineering
Volume: 119 Issue: n 3 Issue Mar1993 p 954-977
Abstract: This paper examines how the history and theory of suspension bridges affected their design between 1823 and 1940. Navier's theory of the unstiffened suspension bridge reveals the concept of cable stiffness. The experience of wind-induced motion in 19th century bridges was a primary influence in the adoption of the stiffening truss, and the Rankine theory, which first considered such trusses, resembles a simple beam solution. The subsequent elastic theory as shown in this paper also resembles a simple beam solution. A reformulation of the deflection theory presented here allows for a physical interpretation and comparison to the previous theories. In examining these theories, this paper gives results of sample calculations based on the Monongahela, Delaware River, and George Washington Bridges; these specific examples reveal certain properties of the theories that emphasize the importance of physical understanding to the use of mathematical theories.
MSEL Call Number Eisenhower Stacks TA1.A49 ST
Database: Compendex

Title: Conditions of suspension bridge cables. New York City case study
In: Transportation Research Record
N 1654 1999 p, 105-112
Abstract: From the opening of the Brooklyn Bridge in 1883 to the opening of the Verrazano Narrows Bridge in 1964 the New York City Metropolitan Area was the center of the most intensive construction of record-breaking suspension bridges worldwide. Of the 10 suspension bridges in the area, 5 established span-length records at their completion. As the twentieth century draws to a close the current records are held elsewhere and these bridges hold a record for the average age and total traffic they have jointly accumulated over the last 115 years. An understanding of suspension bridge behavior can be gained nowhere better than in the examination of the New York examples. In an unprecedented joint effort partly including the New York City Department of Transportation, the New York State Bridge Authority, and the Port Authority of New York and New Jersey, all available information and present common recommendations and guidelines for inspection and rehabilitation of the cable systems were pooled.
MSEL Call Number Libraries Service Center TE1.H54
Database: Compendex

Tips for finding these articles and more journal articles like these.

<http://www.library.jhu.edu/researchhelp/engr/structures/journalarticles.html>