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## Fatigue resistant design of cantivelored sign, signal, and luminaire support structures

James Peter Van Dien  
*Lehigh University*

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# Fatigue Resistant Design Of Cantilevered Signal Sign And Light Supports Nchrp Report 469

**National Cooperative Highway  
Research Program**



## **Fatigue Resistant Design Of Cantilevered Signal Sign And Light Supports Nchrp Report 469:**

*Fatigue-resistant Design of Cantilevered Signal, Sign, and Light Supports* Robert Joseph Dexter, 2002      **Fatigue Loading and Design Methodology for High-Mast Lighting Towers** Robert J. Connor, 2012 TRB's National Cooperative Highway Research Program NCHRP Report 718 Fatigue Loading and Design Methodology for High Mast Lighting Towers provides criteria for the fatigue design of high mast lighting towers      **Guide Design Specification for Bridge Temporary Works** American Association of State Highway and Transportation Officials, 1995      *Fatigue-resistant Design of Cantilevered Signal, Sign and Light Supports* Mark R. Kaczinski, Robert Joseph Dexter, James Peter Van Dien, National Cooperative Highway Research Program, National Research Council (U.S.). Transportation Research Board, 1998

**Structural Analysis of Sign Bridge Structures and Luminaire Supports**, 2004      **Fatigue Design of Steel and Composite Structures** ECCS - European Convention for Constructional Steelwork, 2018-06-05 This volume addresses the specific subject of fatigue a subject not familiar to many engineers but still relevant for proper and good design of numerous steel structures It explains all issues related to the subject Basis of fatigue design reliability and various verification formats determination of stresses and stress ranges fatigue strength application range and limitations It contains detailed examples of applications of the concepts computation methods and verifications      *Development and Calibration of AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals* Jay Alan Puckett, Andrzej S. Nowak, Michael G. Barker, 2014 TRB's National Cooperative Highway Research Program NCHRP Report 796 Development and Calibration of AASHTO LRFD Specifications for Structural Supports for Highway Signs Luminaires and Traffic Signals provides specifications for structural supports of highway signs luminaires and traffic signals for consideration and inclusion in the American Association of State Highway and Transportation Officials AASHTO load and resistance factor design LRFD methodology The report includes the Research Report which documents the entire research effort and the Appendix A Calibration Report Appendix B AASHTO LRFD Specifications will be published by AASHTO Other appendices are available on the TRB website including Appendix C Design Examples Appendix D Survey Results Appendix E Fatigue Resistance Comparisons Publisher's description      [Fatigue Design of Steel and Composite Structures](#) Alain Nussbaumer, Luis Borges, Laurence Davaine, 2012-01-09 This volume addresses the specific subject of fatigue a subject not familiar to many engineers but still relevant for proper and good design of numerous steel structures It explains all issues related to the subject Basis of fatigue design reliability and various verification formats determination of stresses and stress ranges fatigue strength application range and limitations It contains detailed examples of applications of the concepts computation methods and verifications      **Field Testing of Cantilevered Traffic Signal Structures Under Truck-induced Gust Loads**, 2007 *Proceedings of Crack Paths (CP 2012), Gaeta, Italy 2012*, 2012-09-19      **Fatigue-resistant Design of Cantilevered Signal, Sign, and Light Supports** Robert Joseph Dexter, M. J. Ricker, Homer Robert Hamilton, Jay Alan Puckett, National

Cooperative Highway Research Program,1998      **Design of Structures 2004** National Research Council (U.S.).  
Transportation Research Board,2004      **Managing Selected Transportation Assets** Michael J. Markow,National  
Cooperative Highway Research Program,2007 NCHRP synthesis 371 explores the state of the practice for managing  
transportation infrastructure assets other than pavements and bridges and documents gaps in knowledge and areas in need  
of potential further study      **Summary of Progress - National Cooperative Highway Research Program** National  
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*Engineering Journal* ,2007      **Publications Catalog** National Research Council (U.S.). Transportation Research  
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Supports for Highway Signs, Luminaires, and Traffic Signals Fouad H. Fouad,National Cooperative Highway Research  
Program,2003      **Fatigue-resistant Design for Overhead Signs, Mast-arm Signal Poles, and Lighting Standards**  
Justin M. Ocel,Robert J. Dexter,Jerome F. Hajjar,Minnesota. Department of Transportation. Office of Research  
Services,University of Minnesota. Department of Civil Engineering,2006 Traffic signs and signals are often supported by  
flexible cantilevered structures that are susceptible to wind induced vibration and fatigue The latest version of the design  
specifications published by the American Association of State Transportation Officials AASHTO now considers fatigue as a  
limit state However most of the fatigue classifications for welded details were not based on full scale testing and are thought  
to be overly conservative This research will address the fatigue resistance of two common mast arm to pole connections used  
in the state of Minnesota The resistance attained experimentally aligned with current predictions using AASHTO procedures  
except for in plane loading of box connection details As a consequence of specimen design a variety of tube totransverse  
plate connections were also tested using multi sided tube cross sections with different tube diameters tube thicknesses as  
well as base plate thicknesses The standard tube to transverse plate connection exhibited Category K2 resistance two  
categories lower than the E specified by AASHTO This resistance was enhanced to Category E through impact treatment or  
Category E by doubling the base plate thickness Gusset plates could not prevent cracking of the tube at the base plate but  
the tips of the gusset plate exhibited Category E resistance

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