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of Transportation

**Federal Highway
Administration**

Bridge Inspector's Reference Manual



BIRM

Volume 1



NATIONAL HIGHWAY INSTITUTE

Training Solutions for Transportation Excellence



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Volume 2



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BI

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16. Abstract <p>This document, the <i>Bridge Inspector's Reference Manual (BIRM)</i>, is a comprehensive manual on programs, procedures, and techniques for inspecting and evaluating a variety of in-service highway bridges. It is intended to replace the <i>BITM 90</i> which was first published in 1991 to assist in training highway personnel for the new discipline of bridge safety inspection. <i>BITM 90</i> replaced <i>BITM 70</i> which had been in use for 20 years and has been the basis for several training programs varying in length from a few days to two weeks. Comprehensive supplements to <i>BITM 70</i> have been developed to cover inspection of fracture critical bridge members, and culverts are now covered in the <i>BIRM</i>.</p> <p>The <i>BIRM</i> is a revision and upgrading of the previous manual. Improved Bridge Inspection techniques are presented, and state-of-the-art inspection equipment is included. New or expanded coverage is provided on culverts, fracture critical members, cable-stayed bridges, prestressed segmental bridges, and underwater inspection. Previous supplemental manuals on moveable bridge inspection, and nondestructive testing are excerpted and referenced. These supplemental manuals are still valid supplements to <i>BIRM</i>.</p> <p>A three-week comprehensive training program on bridge inspection, based on the <i>BIRM</i>, has been developed. The program consists of a one-week course, NHI Course No 130054, "Engineering Concepts for Bridge Inspectors," and a two-week course, NHI Course No 130055, "Safety Inspection of In-Service Bridges." Together, these two courses meet the definition of a comprehensive training program in bridge inspection as defined in the National Bridge Inspection Standards. The one-week course is optional for technicians, inspectors, or engineers who have an adequate background in bridge engineering concepts.</p> <p>The catalogue for NHI Courses including the schedule, description and course request form can be found on the National Highway Institute web site: www.nhi.fhwa.dot.gov/home.aspx</p>			
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