

## Highway and rail transit tunnel inspection manual



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## HIGHWAY AND RAIL TRANSIT TUNNEL INSPECTION MANUAL

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No binding. Book Condition: New. This item is printed on demand. Original publisher: Washington, D. C. : U. S. Dept. of Transportation, Federal Highway Administration, Office of Asset Management, 2005 OCLC Number: (OCoLC)526301694 Subject: Tunnels -- Inspection -- Handbooks, manuals, etc. Excerpt: . . . Tunnel Inspection Manual means ( e. g. , extracting cores for determination of freeze thaw resistance or concrete strength ) be requested to aid in determining soundness adequacy of the tunnel elements. Although this manual is produced for a hands-on, non-destructive evaluation of the inside face of the tunnel structure, other state-of-the-art, non-destructive testing methods may be used in areas that require a more in-depth structural evaluation. These methods may include mechanical oscillation techniques such as sonic or ultrasonic measurements ( more commonly referred to as Impact-Echo ), electronic techniques such as georadar, and optical techniques such as infrared thermography and multispectral analysis. Each of the above methods has been used successfully in tunnels; however, a full understanding of the applications and limitations of each method is necessary to maximize their benets. It is felt, however, that these state-of-the-art methods are probably only cost effective in long, rail transit tunnels in metropolitan areas. It is assumed that these methods will mostly supplement and not replace the hands-on, non-destructive testing methods described in this manual for many tunnel owners in the United States. Federal Highway Administration 1-3 This item ships from La Vergne,TN. unknown.

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