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inspections, document conditions of the structure, and initiate maintenance actions. If the inspection reveals a situation that requires a greater in-depth evaluation, the inspector (through the division chief) should request a design engineer to evaluate the

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bridge condition and determine corrective maintenance/repair actions.

1-2

BRIDGE INSPECTION MAINTENANCE AND REPAIR

Although many tools and techniques have been developed over the past several years to help engineers evaluate bridge maintenance needs on an objective basis, the process of selecting and scoping bridge maintenance projects remains based in engineering judgment. Databases with decades of bridge inspection observations provide the foundations for increasingly sophisticated deterioration models, which allow for more accurate predictions of future bridge conditions.

Bridge Maintenance - an overview | ScienceDirect Topics

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The last five years have seen the art of bridge management develop
into a mature subject. Bridge owners and engineers recognise the
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strategies to ensure that all road and rail bridges remain functional
for as long ...

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Bridge maintenance requires both scheduled and unscheduled actions.
For the latter, it is common to perform visual inspections. Since the
1980s, there have been attempts to "automatise" the process,
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Bridge inspection is a crucial component of monitoring and maintaining these complex structures. It provides a safety assessment and condition documentation on a regular basis, noting maintenance...

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Bridge Maintenance Reference Manual

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Maintaining and enhancing the clear style and ease of referral that made the first edition internationally popular, Bridge Maintenance Inspection and Evaluation, Second Edition presents new and expanded information on condition ratings, with comprehensive....elucidations of Federal Highway Administration guidelines on specific components....capacity evaluations, including working stress, load factor analysis, and the American Association of State Highway and Transportation Officials new ...

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It is the first comprehensive survey of this kind. The research was accomplished through inspection surveys, analysis of existing bridge maintenance data, condition evaluation and replacement of a

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significant portion of the inspected bearings and expert interviews.

Inspection, condition evaluation and replacement of ...

Bridge inspection data recorded in TBMS are frequently analysed, to determine failure causes. According to the " Validation of bridge inventory data in TBMS " project, funded by Ministry of...

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