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This study was precipitated by several failures of flexible pipe culverts due to apparent inlet flotation. A survey of Iowa County Engineers revealed 31 culvert failures on pipes greater than 72 in. diameter in eight Iowa counties within the past five years. No special hydrologic, topography, and geotechnical environments appeared to be more susceptible to failure. However, most failures seemed to be on pipes flowing in inlet control. Geographically, most of the failures were in the southern and western sections of Iowa. The forces acting on a culvert pipe are quantified. A worst case scenario, where the pipe is completely plugged, is evaluated to determine the magnitude of forces that must be resisted by a tie down or headwall. Concrete headwalls or slope collars are recommended for most pipes over 4 ft in diameter. The new edition of Garber and Hoel's best-selling text focuses on giving students insight into all facets of traffic and highway engineering. Students generally come to this course with little knowledge or understanding of the importance of transportation, much less of the extensive career opportunities within the field. Transportation is an extremely broad field, and courses must either cover all transportation modes or focus on specifics. While many topics can be covered with a survey approach, this often lacks sufficient depth and students leave the course without a full understanding of any of the fields. This text focuses exclusively on traffic and highway engineering beginning with a discussion of the pivotal role transportation plays in our society, including employment opportunities, historical impact, and the impact of transportation on our daily lives. This approach gives students a sense of what the field is about as well as an opportunity to consider some of its challenges. Later chapters focus on specific issues facing transportation engineers. The text uses pedagogical tools such as worked problems, diagrams and tables, reference material, and realistic examples to demonstrate how the material is applied. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Introductory technical guidance for civil engineers interested in surface drainage culverts. Here is what is discussed: 1. INTRODUCTION 2. FISH PASSAGE CONSIDERATIONS, 3. DESIGN STORM, 4. HYDRAULIC DESIGN DATA FOR CULVERTS. The objective of this course is to provide understanding of culvert hydraulics and instruct in the design of both conventional and improved inlet culverts. With its comprehensive coverage of hydraulics and hydrology in a non-calculus format, the Fourth Edition of INTRODUCTION TO HYDRAULICS & HYDROLOGY continues the same straightforward, practical approach that has made previous editions so popular. Designed to provide readers with an understanding of the concepts of hydraulics and surface water hydrology as they are used in everyday practice, this edition contains multiple opportunities for practice and real-world applications that are relevant to civil engineering, land developing, public works, and land surveying. Coverage includes topics such as the history of water engineering, basic concepts of computation and design, principles of hydrostatics and hydrodynamics, open channel flow, unit hydrographs, and rainfall, runoff, and routing. Up-to-date, clearly solved examples are included throughout the book to help readers understand how concepts apply in the real-world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Hydraulic Design Series Number 5 (HDS 5) originally merged culvert design information contained in Hydraulic Engineering Circulars (HEC) 5, 10, and 13 with other related hydrologic, storage routing and special culvert design information. This third edition is the first major rewrite of HDS 5 since 1985, updating all previous information and adding new information on software solutions, aquatic organism passage, culvert assessment, and culvert repair and rehabilitation. The result is a comprehensive culvert design publication. The appendices of the publication contain the equations and methodology used in developing the design charts (nomographs) and software programs, information on hydraulic resistance of culverts, the commonly used design charts, and Design Guidelines (DG) illustrating various culvert design calculation procedures. The number of design charts provided has been reduced recognizing the increased use of software solutions... Designed to be a stand alone desktop reference for the Stormwater manager, designer, and planner, the bestselling Municipal Stormwater Management has been expanded and updated. Here is what's new in the second edition: New material on complying with the NPDES program for Phase II and in running a stormwater quality programThe latest information on The objective of this research was to develop accurate design charts for reinforced concrete and corrugated metal pipe culverts with Type I and Type III end sections. In order to achieve this objective, hydraulic studies were performed to develop inlet-control rating curves for all Type I and Type III end sections used by the Kansas Department of Transportation (KDOT) and to determine the entrance-loss coefficients for full flow through these end sections. Also as part of the study, the effects of debris on the hydraulic performance of the end sections and possible improvements to the design were reviewed. Hydraulic models of culverts with Type I and Type III end sections were developed and tested in the hydraulics laboratory at the University of Kansas. The Froude scaling law was used to translate the model results to prototype scale.

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