

Chapter 2
Stress and Strain in Flexible Pavements

Example



Assumption:
 $\sigma_{1h} = 1$; $\sigma_{2h} = 2$
 From $\sigma_{1h} = \sigma_{2h} = 1$
 $(\sigma_{1h})_{\text{sub}} = 1 \cdot \frac{h}{2} = 0.5h$
 $\sigma_{1h} = 0.5h$
 From $\sigma_{2h} = 2$
 $(\sigma_{2h})_{\text{sub}} = 2 \cdot \frac{h}{2} = h$
 $\sigma_{2h} = h$
 From $\tau_{1h} = \tau_{2h} = 1$
 $(\tau_{1h})_{\text{sub}} = 1 \cdot \frac{h}{2} = 0.5h$
 $\tau_{1h} = 0.5h$

From $\sigma_{1h} = 1$; $\sigma_{2h} = 2$
 $\sigma_{1h} = 0.5h$
 $\sigma_{2h} = h$

The principal stresses can be calculated by following formula:

Principal stress: $\sigma_1, \sigma_2 = \frac{\sigma_{1h} + \sigma_{2h}}{2} \pm \sqrt{\tau_{1h}^2 + (\frac{\sigma_{2h} - \sigma_{1h}}{2})^2}$

$\sigma_1, \sigma_2 = \frac{0.5h + h}{2} \pm \sqrt{(0.5h)^2 + (\frac{h - 0.5h}{2})^2}$
 $= \frac{1.5h + 0.5h}{2} \pm \sqrt{0.25h^2 + (0.125h)^2}$
 $\sigma_1 = 1.0h$; $\sigma_2 = 0.5h$



Case 2:

There is no shear stress in $\sigma = 0$ plane, therefore

$\sigma_1 = \sigma_2 = 0.5h$ is principal stress.

Vertical displacement:

From $\sigma_{1h} = 1$; $\sigma_{2h} = 2$; $\tau_{1h} = \tau_{2h} = 1$
 $\sigma_{1h} = 1$; $\sigma_{2h} = 2$; $\tau_{1h} = \tau_{2h} = 1$

Answer:

$\sigma_1 = \frac{1}{2} (\sigma_1 + \sigma_2 + \sigma_3)$
 $= \frac{1}{2} (1.0h + 0.5h + 0.5h)$
 $\sigma_1 = 0.75h$

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A. T. Papagiannakis, E. A. Masad



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Pavement Design and Analysis Yang H. Huang,2004

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Pavement Design: Materials, Analysis, and Highways M. Rashad Islam, Rafiqul Tarefder, 2021-02-05 Master the principles analysis and design in pavement engineering This student friendly textbook offers comprehensive coverage of pavement design and highways Written by two seasoned civil engineering educators the book contains precise explanations of traditional and computerized mechanistic design methods along with detailed examples of real world pavement and highway projects Pavement Design Materials Analysis and Highways shows step by step how to apply the latest software based AASHTOWare Pavement Mechanistic Empirical Design method Each design topic is covered in separate modular chapters enabling you to tailor a course of study Fundamentals of Engineering FE sample questions are also provided in each chapter Coverage includes Stress strain in pavement Soils aggregates asphalt and portland cement concrete Traffic analysis for pavement design Distresses and distress prediction models in flexible and rigid pavement Flexible and rigid pavement design by AASHTO 1993 and AASHTOWare Overlay and drainage design Sustainable and rehabilitation pavement design pavement management and recycling Geometric design of highways

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Principles of Highway Engineering and Traffic Analysis Fred L. Mannering, Scott S. Washburn, 2020-07-08 Highly regarded for its clarity and depth of coverage the bestselling Principles of Highway Engineering and Traffic Analysis provides a comprehensive introduction to the highway related problems civil engineers encounter every day Emphasizing practical applications and up to date methods this book prepares students for real world practice while building the essential knowledge base required of a transportation professional In depth coverage of highway engineering and traffic analysis road vehicle performance traffic flow and highway capacity pavement design travel demand traffic forecasting and other essential topics equips students with the understanding they need to analyze and solve the problems facing America s highway system This new Seventh Edition features a new e book format that allows for enhanced pedagogy with instant access to solutions for selected problems Coverage focuses exclusively on highway transportation to reflect the dominance of U S highway travel and the resulting employment opportunities while the depth and scope of coverage is designed to prepare students for success on standardized civil engineering exams

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Concrete Pavement Design, Construction, and Performance, Second Edition Norbert J. Delatte, 2014-05-22 This second edition of Concrete Pavement Design Construction and Performance provides a solid foundation for pavement engineers seeking relevant and applicable design and construction instruction It relies on general principles instead of specific ones and incorporates illustrative case studies and prime design examples to highlight the material It presents a thorough understanding of materials selection mixture proportioning design and detailing drainage construction techniques and pavement performance It also offers insight into the theoretical framework underlying commonly used design procedures as well as the limits of the applicability of the procedures All chapters have been updated to reflect recent developments including some alternative and emerging design technologies that improve sustainability What s New in the Second Edition The second edition of this book contains a new chapter on sustainability and coverage of mechanistic empirical design and pervious concrete pavements RCC pavements are now given a new chapter The text also expands the industrial pavement design chapter Outlines alternatives for concrete pavement solutions Identifies desired performance and behavior parameters Establishes appropriate materials and desired concrete proportions Presents steps for translating the design into a durable facility The book highlights significant innovations such as one is two lift concrete pavements precast concrete pavement systems RCC pavement interlocking concrete pavers thin concrete pavement design and pervious concrete This text also addresses pavement management maintenance rehabilitation and overlays

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The Climatic-materials-structural Pavement Analysis Program Barry J. Dempsey, W. Andrew Herlache, Arti J. Patel, University of Illinois at Urbana-Champaign. Department of Civil Engineering, United States. Federal Highway Administration. Office of Engineering & Highway Operations Research and Development, 1985 This publication is the user s manual for i e describes how to setup the input and run the Climatic Materials Structural Pavement Analysis CMS program which is described in detail in Environmental effects on pavements Volume 3 Theory manual

Gravel Roads Ken Skorseth, 2000 The purpose of this manual is to provide clear and helpful information for maintaining gravel roads Very little technical help is available to small agencies that are responsible for managing these roads Gravel road maintenance has traditionally been more of an art than a science and very few formal standards exist This manual contains guidelines to help answer the questions that arise concerning gravel road maintenance such as What is enough surface crown What is too much What causes corrugation The information is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right

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