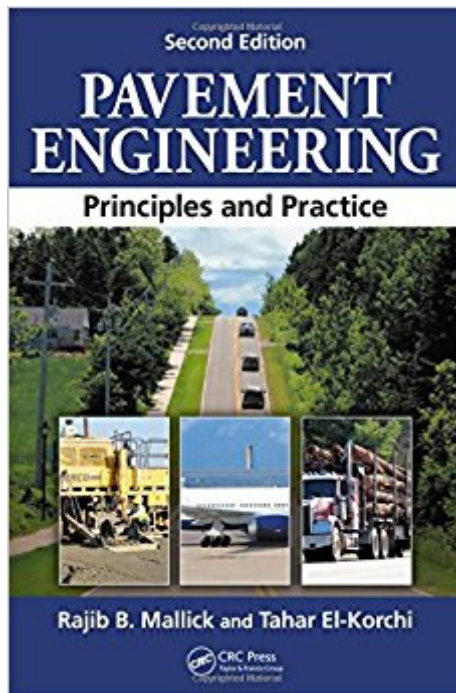




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# Pavement Engineering: Principles And Practice, Second Edition



## Synopsis

Pavements are engineered structures essential to transportation, commerce and trade, and everyday life. In order for them to perform as expected, they must be designed, constructed, maintained, and managed properly. Providing a comprehensive overview of the subject, *Pavement Engineering: Principles and Practice, Second Edition* covers a wide range of topics in asphalt and concrete pavements, from soil preparation to structural design and construction. This new edition includes updates in all chapters and two new chapters on emerging topics that are becoming universally important: engineering of sustainable pavements and environmental mitigation in transportation projects. It also contains new examples and new figures with more informative schematics as well as helpful photographs. The text describes the significance of standards and examines traffic, drainage, concrete mixes, asphalt binders, distress and performance in concrete and asphalt pavements, and pavement maintenance and rehabilitation. It also contains a chapter on airport pavements and discusses nondestructive tests for pavement engineering using nuclear, deflection-based, electromagnetic, and seismic equipment. The authors explore key concepts and techniques for economic analysis and computing life-cycle cost, instrumentation for acquiring test data, and specialty applications of asphalt and concrete. The Second Edition includes more relevant issues and recently developed techniques and guidelines for practical problems, such as selection of pavement type, effect of vehicle tires, and use of smart sensors in rollers and software for drainage analysis. This book presents in-depth, state-of-the-art knowledge in a range of relevant topics in pavement engineering, with numerous examples and figures and comprehensive references to online resources for literature and software. It provides a good understanding of construction practices essential for new engineers and materials processing and construction needed for solving numerous problems.

## Book Information

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"The authors provide a very comprehensive treatment of pavement engineering. The clear strength of this text is the breadth of coverage of the major components of the pavement system materials, structural design, construction, maintenance, and rehabilitation. The authors provide a nice balance of the theoretical basis for many analyses with a practical eye towards designing and building pavements which will perform." Kevin D. Hall, Ph.D., P.E., University of Arkansas

Dr. Rajib Mallick, PE, has extensive experience with asphalt materials, mixture design, construction, pavement design, recycling, and nondestructive testing. From 1992 to 1998, he worked as a research assistant and as a senior research associate at the National Center for Asphalt Technology (NCAT) and is currently the Ralph White Family Distinguished Professor of Civil and Environmental Engineering at Worcester Polytechnic Institute (WPI). He has completed numerous research projects for several departments of transportation, the Federal Highway Administration (FHWA), the Massachusetts Port Authority (Massport), the National Science Foundation (NSF), the Federal Aviation Administration (FAA), and several private practitioner organizations. Dr. Mallick has coauthored more than 100 papers for journals and conference proceedings, as well as several practical reports, manuals, and state-of-the-practice reports for federal, state, and local highway agencies. Dr. Tahar El-Korchi is a professor and head of civil and environmental engineering at Worcester Polytechnic Institute. He does research and teaches courses on pavement analysis, design and management, construction materials testing and evaluation, cement and concrete materials and construction processes, structural analysis and design, and high-performance structural materials at the undergraduate and graduate level. He has published more than 80 publications and presentations and has served at numerous WPI global project centers, including Puerto Rico; Washington, District of Columbia; Morocco; Costa Rica; and Panama. Dr. El-Korchi was granted the prestigious Presidential Young Investigator Award by the National Science Foundation in 1991. Dr. El-Korchi is also a consultant to several major corporations. He provides recommendations for the design and evaluation of pavements, materials, and structures.

Excelent

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An excellent textbook for civil engineers. The text book covers the pavement design, construction, maintenance, engineering and economics, with a complete scope for undergraduate students,

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