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addressing the interactions between the different design and construction variables and techniques this book illustrates best practices for constructing economical long life concrete pavements the book proceeds in much the same way as a

pavement construction project first different alternatives for concrete pavement solutions are outlined the desired performance and behaviour parameters are identified next appropriate materials are outlined and the most suitable concrete proportions determined the design can be completed and then the necessary construction steps for translating the design into a durable facility are carried out although the focus reflects highways as the most common application special features of airport industrial and light duty pavements are also addressed use is made of modeling and performance tools such as hiperpav and ltpv to illustrate behavior and performance along with some case studies as concrete pavements are more complex than they seem and the costs of mistakes or of over design can be high this is a valuable book for engineers in both the public and private sectors

a comprehensive guide for both fundamentals and real world applications of environmental engineering written by noted experts handbook of environmental engineering offers a comprehensive guide to environmental engineers who desire to contribute to mitigating problems such as flooding caused by extreme weather events protecting populations in coastal areas threatened by rising sea levels reducing illnesses caused by polluted air soil and water from improperly regulated industrial and transportation activities promoting the safety of the food supply contributors not only cover such timely environmental topics related to soils water and air minimizing pollution created by industrial plants and processes and managing wastewater hazardous solid and other industrial wastes but also treat such vital topics as porous pavement design aerosol measurements noise pollution control and industrial waste auditing this important handbook enables environmental engineers to treat problems in systematic ways discusses climate issues in ways useful for environmental engineers covers up to date measurement techniques important in environmental engineering reviews current developments in environmental law for environmental engineers includes information on water quality and wastewater engineering informs environmental engineers about methods of dealing with industrial and municipal waste including hazardous waste designed for use by practitioners students and researchers handbook of environmental engineering contains the most recent information to enable a clear understanding of major environmental issues

the subjects of the symposia are on composite materials with matrices behaving as brittle in normal or special conditions brittle matrix composites are applied in various domains civil engineering mechanical equipment and machinery vehicles etc and in the last decades their importance is increasing together with their variety papers include aggregate binder

composites concretes fibre concretes rocks sintered materials ceramics high strength composites with brittle matrices in principle the general problems of structures made of composite materials are not included in the papers various approaches to the material engineering problems are presented in the papers

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with superior fire resistance strength and a long service life concrete is the most widely used construction material in the world a sustainable material concrete is also easily and affordably reused and rehabilitated the first book to provide an overview of sustainability and concrete green building with concrete sustainable design and construction surveys the material s history in the green building movement and presents state of the art methodologies and best practices from the manufacturing of cement to the rehabilitation of concrete this comprehensive book explains how concrete can be used for sustainable design and construction it offers insight into new technological and social developments guiding the introduction of green buildings and examines the attributes that concrete has to offer the green building movement the text also highlights research on economic analysis particularly life cycle costing to provide a full picture of the economic benefits of concrete expert contributors from around the world offer diverse viewpoints on global sustainability topics covered include principles of sustainable design benefits of concrete s thermal mass mitigation of urban heat island effects surface runoff and the application of pervious concrete for sidewalks and parking areas reduction of construction waste leadership in energy and environmental design leed standards emphasizing environmental impact and occupational and consumer health and safety this book explains how to make the most of concrete in sustainable design written for university and concrete industry continuing education courses it also serves as a reference for building owners and industry professionals who recognize the value of green building

comprehensive coverage of the properties behavior and technology of concrete complete with powerpoint slides and videos updated to include the latest advances in concrete technology

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