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Emerging Technique for Recent Construction of Road Pavements by Pervious Concrete

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Abstract:The importance of this research article is to summarize literature on permeable pavements, and highlight current trends in research and industry to recommend future areas of research and development. Permeable paving is a range of sustainable materials and techniques for permeable pavements with a base and sub base that allow the movement of storm water through the surface. Permeable Pavements is a comprehensive resource for the proper design, construction, and maintenance of permeable pavement systems that provide a transportation surface and a best management practice for stormwater and urban runoff. A cornerstone for low impact development and sustainable site design, permeable pavements are considered a green infrastructure practice. They offer many environmental benefits, from reduced stormwater runoff and improved water quality to better site design and enhanced safety of paved surfaces. Commonly used for walkways, driveways, patios, and low-volume roadways as well as recreational areas, parking lots, and plazas, permeable pavements are appropriate for many different land uses, particularly in highly urbanized locations. This volume synthesizes today's knowledge of the technology, drawing from academia, industry, and the engineering and science communities. It presents an overview of typical permeable pavement systems and reviews the design considerations. Detailed design, construction, use, and performance information is provided for porous asphalt, pervious concrete, permeable interlocking concrete pavement, and grid pavements. Fact sheets and checklists help to successfully incorporate permeable pavement systems into design projects. At present this an emerging technologies for green technology in the construction field. Permeable Pavements is an essential reference for engineers, planners, landscape architects, municipalities, transportation agencies, regulatory agencies, and property owners planning to implement this best management practice for stormwater and urban runoff. Increase subsurface water level, thus one way to harvest storm water. Fly ash is generated in huge quantity in thermal power stations. The disposal of fly ash is also a major socio-economic problem. So the use of fly ash up to 10-30% as a replacement to a cement can overcome this problem. The use of fly ash will reduce the construction cost and also solve disposal problem. Porous pavement is unique and effective means to meet growing environmental demands.

Key Words: Permeable pavement, pervious concrete, Sustainable material, Storm water, Environmental benefits, Cost.

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