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Special Issue Reprint

Advances in Road Pavements

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Road pavements are essential to transportation infrastructure, supporting mobility, safety, and sustainability. Increasing traffic loads and climate-related stresses require pavement solutions with higher performance, durability, and resilience, supported by innovative materials and advanced design and monitoring approaches. This reprint presents a collection of peer-reviewed contributions from the Special Issue “Advances in Road Pavements” published in the journal *Buildings* (MDPI). The volume provides an overview of recent scientific and technological advances in road pavement engineering, combining theoretical developments with practical applications. The chapters cover topics such as pavement design and performance evaluation, innovative materials and construction methods, surface characteristics and ride quality, safety-related aspects, numerical modeling, monitoring technologies, and sustainable strategies for pavement construction, maintenance, and rehabilitation. The contributions include experimental studies, numerical analyses, and real-world case studies reflecting current challenges, particularly in urban mobility and infrastructure management. By integrating multidisciplinary perspectives, the reprint offers insights into improving pavement performance, extending service life, and reducing life-cycle costs and environmental impacts. This volume is intended for researchers, graduate students, practicing engineers, infrastructure managers, and policymakers seeking an up-to-date reference on road pavement engineering.

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