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this paper describes the necessity of a structural monitoring paradigm includes assessment techniques and suitable maintenance management for assessing concrete structures health this structural monitoring paradigm enables to provide necessary data for structural maintenance and safety the integration of smart technologies within concrete structures marks a paradigm shift in how we perceive and manage infrastructure embedded sensors and real time data analysis open new avenues for structural health monitoring and early warning systems fostering a safer and more resilient built environment understanding and predicting process structure property performance relationships for concrete materials is key to designing resilient and sustainable infrastructure structural health monitoring shm system detects and diagnoses damage and perform prediction of future states of the structures this paper provides an effort in big data based shm system for precise and accurate prediction of damages defects and serviceable life of the existing structures this article gives a comprehensive review of the acoustic emission ae technique for its applications in concrete structure health monitoring basic and established condition assessment methods for concrete structures are reviewed to configure a firm perception of ae application for enhanced performance and reliability the case study of the funicular floor showcases the rapid design iterations made possible by producing sfms on three different scopes component partial model and full model it sets a paradigm for efficiently rationalizing discrete 3d printed concrete structures a paradigm changing framework for reliability based analysis and design of concrete structures jia liang le no engineering structure remains risk free during its entire service lifetime engineers must design structures to limit probable risk of failure to a tolerable level about this book sets out basic theory for the behavior of reinforced concrete structural elements and structures in considerable depth emphasizes behavior at the ultimate load and in particular aspects of the seismic design of reinforced concrete structures based on american practice but also examines european practice table of contents this overview of some recent studies conducted by the authors shows that there is a huge potential for innovation in the structural concrete area currently the paradigm is to improve the performance considering simultaneously strength durability eco efficiency and cost from a life cycle perspective concrete structures are facing a shift in design paradigm steen rostam1 summary future demands for service life performance of concrete structures pose multidisciplinary challenges on the designer to master structural materials construction and maintenance properties researchers advocate for a paradigm change in the science of forecasting corrosion damage within reinforced concrete structures this present paper describes an experimental study focused on the influence of the interface strength between the lightweight aggregate concrete lwac and the ultra high durability concrete this paper describes the necessity of a structural monitoring paradigm includes assessment techniques and suitable maintenance management for assessing concrete structures health the fundamental assumptions underlying most existing models for the shear behaviour of structural concrete referred to as paradigms of shear are identified and reviewed

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