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Sommario/riassunto	Building materials are experiencing degradation phenomena due to the long-term action of the atmospheric components. The understanding of the transport characteristics in concrete is a key issue to mitigate the deleterious consequences. Conventional cement-based materials suffer from a lack of ductility. However, modern cement compositions, fiber materials and additions allow to engineer new products adjusted to the purpose. These and several key topics for modern civil engineering are discussed in this book.