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(PDF) Materials for Civil and Construction Engineers 4th ...
Materials for Civil and Construction Engineers Author(s) of the Book Michael S. Mamlouk John P. Zaniwski Edition 3rd Edition Contents of Book Materials Engineering Concepts Nature of Materials Steel Aluminium Aggregates Portland Cement, Mixing Water and Admixtures Portland Cement Concrete Masonry Asphalt Binders and Asphalt Mixtures Wood / Timber Composites *Civil Construction - Understand Building Construction* A civil engineer must be familiar with construction materials, and construction machinery. With this knowledge, he can meet safety, durability, reliability and cost requirements. He needs to have knowledge of a mechanical and structural engineer too. Civil Construction and Engineering Employment Opportunities [\[PDF \] Materials for Civil and Construction Engineers ...](#)

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Cement is one of the most widely used materials in construction, but also one of the largest contributors to harmful carbon emissions, said to be responsible for around 7 per cent of annual global emissions. Cracking is a major problem in construction, usually caused by exposure to water and chemicals.
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