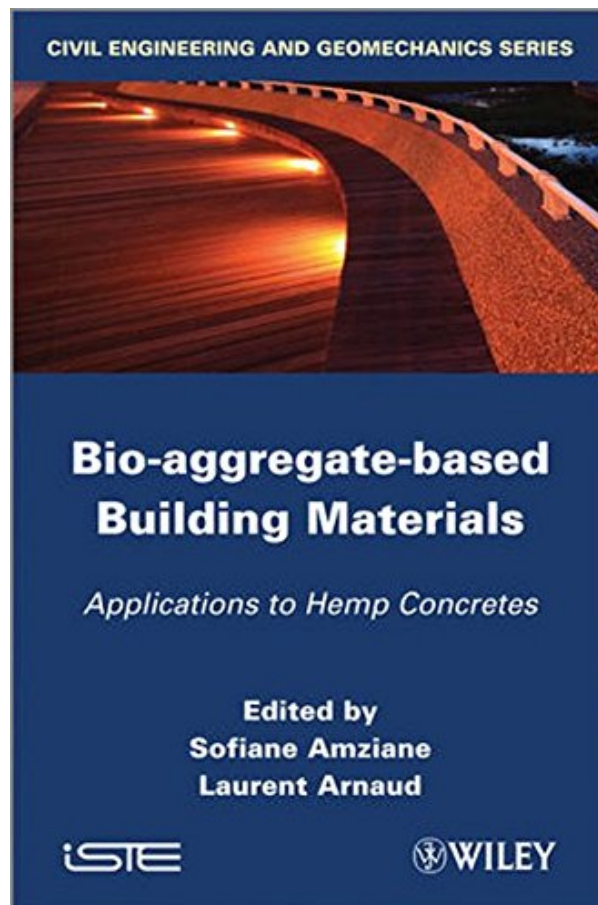


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Applications to Hemp Concretes

**Edited by
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Using plant material as raw materials for construction is a relatively recent and original topic of research. This book presents an overview of the current knowledge on the material properties and environmental impact of construction materials made from plant particles, which are renewable, recyclable and easily available. It focuses on particles and as well on fibers issued from hemp plant, as well as discussing hemp concretes. The book begins by setting the environmental, economic and social context of agro-concretes, before discussing the nature of plant-based aggregates and binders. The formulation, implementation and mechanical behavior of such building materials are the subject of the following chapters. The focus is then put upon the hygrothermal behavior and acoustical properties of hempcrete, followed by the use of plant-based concretes in structures. The book concludes with the study of life-cycle analysis (LCA) of the environmental characteristics of a banked hempcrete wall on a wooden skeleton.

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Sofiane Amziane is Professor and head of the Civil Engineering department at POLYTECH Clermont-Ferrand in France. He is also in charge of the research program dealing with bio-based building materials at Blaise Pascal University (Institut Pascal, Clermont Ferrand, France). He is the secretary of the RILEM Technical Committee 236-BBM dealing with bio-based building materials and the author or co-author of over one hundred papers in scientific journals such as Cement and Concrete Research, Composite Structures or Construction Building Materials as well as international conferences.

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