Resumen de Tesis Doctoral



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Título de la tesis	Propuesta metodológica para evaluar el comportamiento ambiental y económico de los residuos de construcción y demolición (RCD) en la producción de materiales pétreos
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Resumen de la tesis de 4000 caracteres máximo (si se superan los 4000 se cortará automáticamente) The construction sector contributes to current environmental problems. It is responsible for the impact of the production of ontruction materials need to be found that use construction and demolition waste (secondary production), rather than original raw materials (primary production). In the literature, there are several studies on the management of construction and demolition waste (CDW), as well as laboratory and field studies on the technical performance of recycled CDW products and their incorporation into stone materials. However, there is a notocable lack of studiardized tests to assess the environmental vability of these processes, and a lack of studies on the economic viability of CDW use in the production of new construction materials. Considering the above, the increasingly competitive economic, and the growing demand for more responsibility in construction works to comply with environmental legislation, an assessmentool is required that can compare the alternatives of producing and using building materials from original raw material and/or from recycled material. The tool should take into account technical criteria, which have been studied by other authors, as well as environmental and economic criteria. Consequently, this thesis develops a proposal for a tool that can support decision-making by assessing the production of building stone materials multi-criteria approach and different weights or rankings of the evaluated criteria. In the doctoral research, the methodology was applied to some key stone materials in construction, specifically, in the context of Spain: gypsum, cement, aggregates and concrete. The results of this thesis show, first, that the tool supopts the decision-making process by obtainin	
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