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TI

Statistical models for concrete containing wood chipping as partial replacement to fine aggregate

AU

Mohammed, Bashar S; Abdullahi, M 🔀; Hoong, C.K. **Construction and Building Materials** 55 (Mar 31, 2014): 13-19.

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⊟ **Abstract (summary)** Translate

AB

The properties of concrete containing wood chippings as partial replacement to fine aggregate are presented in this paper. Wood chipping was treated by water before mixing to prevent it from soaking the water meant for cement hydration. Fifteen trial mixes were prepared and cast using three water-cement ratios (0.37, 0.41 and 0.57) at different replacement levels of wood chippings. Fresh concrete properties tested included slump, unit weight and air content. Hardened concrete properties tested included compressive strength, splitting tensile strength, flexural strength, modulus of elasticity, rebound hammer (RH) and ultrasonic pulse velocity (UPV). Several statistical models were developed to show the relationships between measured responses and variables and among measured responses. These models were validated using various model statistics. Test results show that disposal of wood chipping in concrete is feasible and appropriate. These models are providing a design mix aid of concrete containing wood chipping as partial replacement of fine aggregate. © 2014 Elsevier Ltd. All rights reserved.

⊟ **Indexing (details)** ▤ Cite

SU

Subject	Chipping; Compression Strength; Concrete; Hardening; Hydration; Tensile Strength; Water Treatment
IF Identifier (keyword)	Concrete, Fresh properties, Hardened properties, Rebound number, UPV, Wood chipping; Fresh properties, Hardened properties, Rebound number, UPV, Wood chipping
TI Title	Statistical models for concrete containing wood chipping as partial replacement to fine aggregate
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Document status	DSTAT	dstat(new) dstat(revised)	
Document title	TI	ti("statistical models" N/3 "concrete containing wood")	Includes alternate title. Does not include Publication title (PUB).
Title only	TIO	tio(forest)	Searches only the Title, not Alternate title.
Alternate title	OTI	oti("peuplement forestier")	Usually an original language title, when the English title is in Document title. Field code TI also searches the Alternate title.
Document type	DTYPE	dtype("article")	
DOI	DOI	doi(10.1016/j.conbuildmat.2014.01.021)	Digital object identifier
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Identifier (keyword)	IF	if("hardened properties")	Keywords (uncontrolled vocabulary terms). Also searchable using SU. Search also contains terms from throughout the document which are calculated to be relevant.
ISBN	ISBN	isbn(9781424495665)	
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Field name	Field code	Example	Description and Notes
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Start page	PAGE	page(13)	First page number – displayed within Pagination. Searchable on the Look Up Citation tool.
Patent assignee	AP	ap(xerox) ap("riso kagaku")	Patent assignees; could include patent applicant if provided.
Patent classification	PAC	pac(27/2)	Searches both US and IPC patent classifications.
Patent information	PAT	pat(xerox) pat(2711680)	Searches all patent information, except classification.
Patent publication number	PN	pn(2711680)	Displayed within Patent information.
Publication date	PD	pd(20140331) pd(>=201210) pd(20090501-20090731)	Also searchable by the Look Up Citation tool.
Publication title[1]	PUB	pub(construction and building materials)	Includes all Publication names, including conference titles. Journal names also searchable using JN.
Publication type	PSTYPE	pstype(journal)	Preferred search uses Document type (DTYPE).
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