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- Finishing and converting
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- Lignin
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- Mill construction and operation
- Packaging
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- Pulp, paper, and board
- Silvichemicals and residues
- Spent liquors and pollution control
- Tissue culture
- Water

Date Coverage

1967–present

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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)

SU

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

AU

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LA

Language English

SL

Language of abstract English

DTYPE

Document type Article

PUB

Publication title Construction and Building Materials

VO

Volume 55

PG

Pagination 13-19

ISSN

ISSN 09500618

CODEN

CODEN CBUME

PSTYPE

Publication type Journal

| | | |
|-------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PB | Publisher | Elsevier Ltd |
| PBLOC | Publisher location | Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom |
| DOI | DOI | http://dx.doi.org/10.1016/j.conbuildmat.2014.01.021 |
| SID | PII | S0950061814000452 |
| NR | Supplier identifier | 372244844 |
| PD,YR | Number of references | 13 |
| DCRE | Publication date | Mar 31, 2014 |
| DSTAT | Date created | 2014-02-10 |
| AN | Document status | New |
| | Source attribution | PaperChem, © Publisher specific |
| | Accession number | 20140617280747 |
| | Document URL | http://search.proquest.com/professional/docview/1498536470?accountid=137296 |
| FAV | Copyright | Copyright 2014 Elsevier B.V., All rights reserved. |
| UD | First available | 2014-02-17 |
| | Updates | 2014-02-17 |
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| Assignee | AP | ap(xerox) ap("riso kagaku") | Patent assignees; could include patent applicant if provided. |
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| Classification (patent) | PAC | pac(27/2) | Searches both US and IPC patent classifications. |
| CODEN | CODEN | coden(cbume) | |
| Conference country | CCNT | ccnt("new zealand") | Also searchable with CF. |
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| Copyright | CY | cy(2014) | |
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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 |
| First available | FAV | fav(2014-02-17) | Date on which a record was first loaded on ProQuest Dialog. May have been subsequently updated. |
| From database ² | FDB | "casting techniques" AND fdb(paperchem) "casting techniques" AND fdb(1008450) | Useful in multi-file searches to isolate records from a single file.* FDB cannot be searched on its own; specify at least one search term then AND it with FDB. |
| 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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| Issue | ISS | iss(4) | Also searchable by the Look Up Citation tool. |
| Journal title | JN | jn("journal of nanoscience and nanotechnology") | Displayed in Publication title. Look-Up list available under Publication title. |
| Language | LA | la(english) | The language in which the document was originally published. |
| Language of abstract | SL | sl(english) | Summary language |
| Notes | NT | nt("paperchem volume 38") | Journal announcement (present in some older records) |
| Page count | PCT | pct(2) | Number of printed pages, when supplied |
| Pagination | PG | pg(13-19) | The start page is searchable on the Look Up Citation tool. |
| 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). |
| Publication year | YR | yr(2014) | Single year or a range of years may be searched. Displayed within Publication date. |
| Publisher | PB | pb(Elsevier Ltd) | |
| Publisher location | PBL | pbloc(oxford and "united kingdom") | |
| Source details | SRC | src(avail*) | Includes Publication Title, Volume, Issue, Publication Date, Pagination, and similar items. Also searchable by the Look Up Citation tool. Displays as individual items, or as Source details in pre-1990 records. |
| Subject ¹ | SU | su("tensile strength") | Contains descriptors from controlled vocabulary. Also includes uncontrolled terms displayed as Identifiers (keywords); these are displayed separately. |
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