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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Towards a competitive traditional market through infrastructure performance and redefinition categories: A case in Semarang City

Jumlah Penulis : 3 Orang (Ferry H, **Ismiyati**, Himawan I)

Status Pengusul : Penulis kedua

Identitas Prosiding :

a. Judul Prosiding : Matec Web Conference Volume 195, 2018
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c. Thn Terbit, Tempat Pelaks. : Tahun 2018, Solo Baru, 11-12 July 2018

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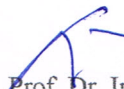
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- Kelengkapan unsur dan kualitas terbitan:**
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NIP. 196006021986021001
Unit Kerja: Departemen Teknik Sipil FT UNDIP

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Semarang,
Reviewer 2



Dr. Yulita Arni Priastiwi, S.T., M.T.
NIP. 197107231998022001
Unit Kerja : Departemen Teknik Sipil FT UNDIP

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Towards a competitive traditional market through infrastructure performance and redefinition categories : A case in Semarang city

(Conference Paper) (Open Access)

Hermawan, F. ✉️, Ismiyati, I., Indarto, H. 👤
Department of Civil Engineering, Diponegoro University, Prof. Sudharto, SH Street, Tembalang, 50275, Indonesia

Abstract

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The revitalization of the Indonesian Traditional Market has prolonged problems, becoming a never-ending story, particularly in public building standards in the last decade. A competitive traditional market is public need, where the affordable prices and infrastructure are the central consideration. This research aims to figure out the current condition of the Indonesian Traditional Market and the needs of future policy towards a competitive environment of the marketplace in a metropolitan city context. However, Western culture has been mixed into the current management of the Indonesian Traditional Market . The insight of the ideal traditional market for the metropolitan city , as well as Semarang , is the standard from Indonesian public market guidance and a lesson learned from other countries. This research was conducted between 2014-2017. A case study method was applied, using semistructured interviews, document investigation of Detailed Engineering Design (DED) and field observation of registered traditional markets in Semarang . The results will determine the current implementation of Traditional Market standards in Semarang . The infrastructure performance and redefinition category among marketplaces are suggested as a consideration toward the competitive traditional market on public building policy. © The Authors, published by EDP Sciences, 2018.

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- ☐ 1 Hermawan, F., Indarto, H., Ismiyati, I.
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- ☐ 2 Rufaidah, P.
(2008) *Jurnal Sosioteknologi*, 14 (7), pp. 405-408.
- ☐ 3 Fanani, F., Niswah, F.
(2013) *Publika*, 1 (3), pp. 1-11.
- ☐ 4 Nugroho, B.A.A., Herbasuki, N.
(2014) *Jurnal Fakultas Ilmu Sosial Dan Ilmu Politik Universitas Diponegoro*, 3.
- ☐ 5 Anggraini, G., Amalia, D.
(2016) *Final-Project, Department of Civil Engineering*. Cited 2 times.
Diponegoro University, Indonesia
- ☐ 6 Hermawan, F.
(2015)
PhD Thesis, Coventry University, UK
- ☐ 7 Hermawan, F., Soetanto, R.
(2014) *Proceeding ICONIC 2014*. Cited 2 times.
Nuremberg, Germany
- ☐ 8 Rizal, R.M., Alhamidi, N.R.
(2017) *Final-Project, Department of Civil Engineering*. Cited 2 times.
Diponegoro University, Indonesia

□ 9 Santoso, J., Jawa, A.-K., Kultur, K., Jakarta, K. (2008)

□ 10 Paramita, A.A.M.P., Ayuningsasi, A.A. (2013) *E-Jurnal EP Unud*, 2 (5), pp. 233-243. Cited 2 times.

□ 11 Parawangsa, H.M. (1994) *Manajemen Pembangunan Pasar* Jakarta

□ 12 Semeru Newsletter, 22/ (June 2007

□ 13 Donofrio, G.
Attacking Distribution: Obsolescence and Efficiency of Food Markets in the Age of Urban Renewal

(2014) *Journal of Planning History*, 13 (2), pp. 136-159. Cited 5 times.
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Performance and Redefinition Categories: A Case in Semarang City**

July, 11-12 2018 Solo, Indonesia

For participating in the

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Event Guide Book

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CONTENTS

Front Pages	2
Preface by the Chairman of 4 th ICRMCE	3
Committee	5
Contents	7
Event Schedule	8
Class Division	11
Venue Floor Plan: 1st Floor Layout	24
Venue Floor Plan: 1st Floor Detail	25
Venue Floor Plan: 2nd Floor Layout	26

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Keynote speakers



Kennichiro Nakarai

Graduate School of Engineering, Hiroshima University, Japan

Q more ... (<http://seeds.office.hiroshima-u.ac.jp/profile/en.82b745276185148e520e17560c007669.html>)



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A mini symposium will be convened by FIB-Indonesia, a group of concrete scientists and engineers in Indonesia, in conjunction with the 4th International Conference on Rehabilitation and Maintenance in Civil Engineering held by collaboration of several university in Indonesia and worldwide. The theme of the mini symposium will be on Concrete Structures; Past Achievement, Current Issues and Future Development. It addresses the legacy, the state of the arts and practices of concrete structures as well as the challenge concrete industry is facing in the future.

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Solo Baru, Indonesia, July 11-12, 2018

P. Hajek, A.L. Han, S. Kristiawan, W.T. Chan, M.b. Ismail, B.S. Gan, R. Sriravindrarajah and B.A. Hidayat (Eds.)

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Advanced high-performance concrete structures – challenge for sustainable and resilient future

Petr Hajek^{1,*}

¹Czech Technical University in Prague, Faculty of Civil Engineering, 166 29 Prague 6, Thakurova 7, Czech Republic

Abstract. Development and recent changes in natural and socio-economic environment requires new technical solutions for construction of new and reconstruction and modernization of existing structures. Structures and all built environment should be better prepared for new conditions – they should be sustainable and resilient. Concrete is building material with high potential for new technical solutions resulting in needed environmental impact reduction and consequent social and economic improvements. The paper presents potential contribution of concrete industry, advanced high-performance concrete and concrete structures to Sustainability Development Goals specified in UN 2030 Agenda for Sustainable Development and presents basic principles of implementation of sustainability approach into design of concrete structures and particularly to fib Model Code 2020.

1 Introduction

1.1 World is changing

Considering scale line - one year for entire life of the Earth - the human civilization exists only last 90 seconds and RC structures are used in last one second. Earth existed long before humans developed on the Earth and will exist long after the conditions on the Earth will not be suitable for human life. Sustainability is about preservation of environmental, social and economic conditions on our planet in the form which will enable survival of humans on the Earth as long as possible [1]. The question raised in this paper is how concrete, as the second most used material after water and the most used construction material, can help in this process.

Changing of the climate on the Earth is innate and everlasting process; environmental conditions are continuously changing due to continental drift followed by volcanic, seismic effects and due to man-made impacts. Human life conditions for life are modified – and as a consequence biodiversity is irrecoverably changed. This process was in previous periods very slow, enabling consecutive adaptation of life forms (incl. humans) to changing

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Waterproofing practices in Australia for building construction

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Abstract. Waterproofing is an essential component in building construction to maintain the integrity of buildings with reduced maintenance cost. A comprehensive waterproofing system is an integrated combination of factors, and includes product selection, membrane detail, substrate preparation, design, installation and maintenance. It is designed to work under different environmental conditions, substrates and applications. Proper understanding of the issues related to waterproofing membrane systems is important to minimise the waterproofing failures in both commercial and residential buildings. This paper aims to discuss Standards and Codes; membrane systems and performance, waterproofing practices, design and installation techniques, inspection and testing and quality assurance adopted by the waterproofing industry in Australia.

1 Introduction

Waterproofing is a fundamental and vital construction activity to maintain the integrity of both commercial and residential buildings over its service life. It minimises the post-completion problems mainly caused by water damages such as mould growth and rusting. A comprehensive waterproofing system is an integrated combination of factors, includes product selection, membrane detail, drainage design, substrate preparation, design, installation, quality assurance and maintenance. The advancements in technology have led to the development of various waterproofing membrane systems, namely liquid, sheet and spray-applied membranes. Each of these systems has its advantages and disadvantages. This paper aims to discuss Standards and Codes; membrane systems and performance, waterproofing practices, design and installation techniques, inspection and testing and quality assurance adopted by the waterproofing industry in Australia.

2 Standards and building codes in Australia

AS3740 [1] (Waterproofing of domestic wet areas) and AS4654.1/2 [2, 3] (Waterproofing membrane systems for exterior use) are current Australian standards used by the building and construction industry in Australia. AS4654.1 [2] lists the conditions and requirements that membranes will be subjected to test its durability. This includes time, humidity, water

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Microscopic investigation on concrete cured internally by using porous ceramic roof-tile waste aggregate

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Abstract. Porous ceramic roof-tile waste aggregate (PCA), which is a recycled material, is an effective internal curing material for concrete. Part of the aggregate is replaced with saturated internal curing material to supply internal water into the cement paste continuously. Internal water is effective to promote the hydration of cement paste, especially in concrete with a low water-to-cement ratio because external curing water cannot easily reach inside the concrete. It has been reported that PCA leads to an increase in compressive strength and the reduction of autogenous shrinkage of concrete. However, the effects of PCA in previous researches are different with regards to the experimental conditions and have not been evaluated sufficiently. Therefore, the present study aims to investigate the effect of internal water supplied from PCA microscopically. In the experimental program, a compressive strength test was conducted for 6 types of concrete with a W/C of 0.35. The microhardness around the aggregate in the concrete was also measured to investigate the extent of the influence of the internal water supply. The results showed the possibility that microhardness of ITZ around PCA is improved by internal curing water supply and the compressive strength of concrete is also improved by using PCA.

1 Introduction

Generally, curing is conducted for concrete immediately after casting in a humid environment in order to promote the hydration of cement paste. However, external curing water cannot reach the inside of concrete sufficiently, especially in concrete with a low water to cement ratio (W/C) because the surface part of such a type of concrete is dense. To compensate for such a problem, internal water curing is effective to promote hydration. Internal curing is a curing method in which part of the aggregate is replaced with saturated internal curing material to supply internal water into the cement paste continuously. In concrete, capillary water is consumed for hydration of

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[PDF \(381.4 KB\)](#) | [References](#)

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Strength development of cement-treated sand using different cement types cured at different temperatures 01006**Lanh Si Ho, Kenichiro Nakarai, Kenta Eguchi, Takashi Sasaki and Minoru Morioka**

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501006>[PDF \(561.0 KB\)](#) | [References](#)

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Effect of co-existing ions on lead leaching behaviour from hardened cement paste 01007

Takumi Nishiwaki, Shaojun Zhou, Masaharu Yamasaki, Yuko Ogawa and Kenji Kawai

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501007>[PDF \(395.2 KB\)](#) | [References](#)

Open Access

Mechanical properties of concrete composed of sintered fly ash lightweight aggregate 01008

Puput Risdanareni, Januarti Jaya Ekaputri, Ike Maulidiyawati and Poppy Puspitasari

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501008>[PDF \(295.5 KB\)](#) | [References](#)

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Rice husk as an alternative energy for cement production and its effect on the chemical properties of cement 01009

Agus Maryoto and Gathot Heri Sudibyo

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DOI: <https://doi.org/10.1051/mateconf/201819501009>[PDF \(405.6 KB\)](#) | [References](#)

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Purwanto, Ay Lie Han, Nuroji and Januarti Jaya Ekaputri

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DOI: <https://doi.org/10.1051/mateconf/201819501010>[PDF \(566.6 KB\)](#) | [References](#)

Open Access

The effect of additional aluminium to the strength of geopolymer paste 01011

Aulia Rahman and Januarti Jaya Ekaputri

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501011>[PDF \(415.2 KB\)](#) | [References](#)

Open Access

Effects of microbial agents to the properties of fly ash-based paste 01012

Kiki Dwi Wulandari, Januarti Jaya Ekaputri, Triwulan, Chikako Fujiyama and Davin H. E. Setiamarga

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501012>[PDF \(944.4 KB\)](#) | [References](#)

Open Access

Microstructure and mechanical properties of FA/GGBS-based geopolymer 01013

Apriany Saludung, Yuko Ogawa and Kenji Kawai

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501013>[PDF \(2.117 MB\)](#) | [References](#)

Open Access

Repair of rigid pavement using micro concrete material 01014

Jonbi Jonbi, A. R. Indra Tjahjani, Nuryani Tinumbia, A. M. Pattinaja and Bambang S. Haryono

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501014>[PDF \(764.4 KB\)](#) | [References](#)

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Evaluation of bond strength between normal concrete and high performance fiber reinforced concrete (HPFRC) 01015

Nur Adibah Ayuni Abd Malek, Khairunnisa Muhamad, Mohd Zulham Affandi Mohd Zahid, Nur Ain Hamiruddin, Norrazman Zaiha Zainol, Norhaizura Yahya, Nurulashikin Bahaman and Nurfaraheen Mohd Ramli

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501015>[PDF \(1011 KB\)](#) | [References](#)

Open Access

Slant shear strength of fibre reinforced polyvinyl acetate (PVA) modified mortar 01016

Stefanus Kristiawan, Bambang Santosa, Edy Purwanto and Rachmad A. Caesar

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DOI: <https://doi.org/10.1051/mateconf/201819501016>[PDF \(587.5 KB\)](#) | [References](#)

OK

Strength development of cement-treated sand using different cement types cured at different temperatures

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Abstract. This study aimed to investigate the strength development of cement-treated sand using different cement types: ordinary Portland cement (OPC), high early strength Portland cement (HPC), and moderate heat Portland cement (MPC) cured at different temperatures. The cement-treated sand specimens were prepared with 8% of cement content and cured under sealed conditions at 20°C and 40°C, and mortar specimens were also prepared for reference. The results showed that the compressive strength of cement-treated sand increased in order of MPC, OPC, and HPC under high curing temperatures. It was interesting that the compressive strength of the specimens using HPC was much larger than that of the specimen using OPC and MPC under 20°C due to the larger amount of chemically bound water. Additionally, it was revealed that under high curing temperatures, the pozzolanic reaction was accelerated in the cement-treated sand; this may be caused by the high proportions of sand in the mixtures.

Keywords: Cement-Treated Sand, Compressive Strength, Cement Types, Curing Temperatures, Cement Hydration, Pozzolanic Reaction.

1 Introduction

Cement-treated soils have been applied popularly for soft soil improvement, especially for the deep mixing method. It is known that the compressive strength of cement-treated soils is considered an important indicator to characterize soil behavior [1-3]. The strength development of cement-treated soils is governed by many factors such as conditions of soil, mixing, and curing [4]. In terms of curing conditions, the curing temperature is an important factor that affects the strength development of cement-treated sand. With regards to the deep mixing method, large columns of cement-treated soils are usually used. A previous study on the temperature history of field deep mixing columns revealed that the

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Published online: 22 August 2018
 DOI: <https://doi.org/10.1051/mateconf/201819501017>
[PDF \(670.7 KB\)](#) | [References](#)

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[The use of grinded andesite-sand and foaming-agent to improve the porosity of foam-concrete](#) 01018

Rommel Erwin, Rusdianto Yunan, Dawara Kiki Ruris and Eddy S Tri

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501018>

[PDF \(1.094 MB\)](#) | [References](#)

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[A comparative analysis of the quality of concrete blocks produced from coconut fibre, oil palm empty fruit bunch, and rice husk as filler material](#) 01019

Mohammad Lutfi, Muh Yamin, Mujibu Rahman and Elisa Ginsel Popang

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501019>

[PDF \(686.5 KB\)](#) | [References](#)

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[Effect of added the polycarboxylate ether on slump retention and compressive strength of the high-performance concrete](#) 01020

Jonbi Jonbi, Resti Nur Arini, Basori Anwar and Mohamad Ali Fulazzaky

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501020>

[PDF \(370.8 KB\)](#) | [References](#)

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[The influence of OPC and PPC on compressive strength of ALWA concrete](#) 01021

Fedya Diajeng Aryani, Tavio, I Gusti Putu Raka and Puryanto

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501021>

[PDF \(512.9 KB\)](#) | [References](#)

☐ Open Access

[A preliminary study of the low density particle boards quality using rice husks and oil palm empty fruit bunch with plastic waste adhesive](#) 01022

Muh. Yamin, Rudito, Andi Lisnawati and Mohammad Lutfi

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501022>

[PDF \(702.4 KB\)](#) | [References](#)

☐ Open Access

[Characterization and compressive strength of fly ash based-geopolymer paste](#) 01023

Ari Widayanti, Ria Asih Aryani Soemitro, Hitapriya Suprayitno and Januarti Jaya Ekaputri

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501023>

[PDF \(997.6 KB\)](#) | [References](#)

☐ Open Access

[The effect of addition of banana tree bark for compressive strength and crack tensile strength of rice husk ash concrete](#) 01024

Muhammad Rizqi, Hernu Suyoso and Gati Annisa Hayu

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501024>

[PDF \(516.3 KB\)](#) | [References](#)

☐ Open Access

[Experimental study of accelerating early age concrete strength under elevated temperature, steaming, and chemical admixture addition of normal and high strength concrete](#) 01025

Suryawan Murtiadi, Akmaluddin Akmaluddin, Buan Anshari and Suparjo Suparjo

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819501025>

[PDF \(819.4 KB\)](#) | [References](#)

OK

- Structural Engineering

☐ Open Access

[Shear-bond behavior of fiber reinforced polymer \(FRP\) rods and sheets](#) 02001

Aylie Han, Buntara S. Gan and Agung Budipriyanto

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502001>

[PDF \(1.606 MB\)](#) | [References](#)

☐ Open Access

[Performance of composite local glass fibre sheets and epoxy on flexural strengthening of reinforced concrete beams](#) 02002

I Ketut Sudarsana

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502002>

[PDF \(646.9 KB\)](#) | [References](#)

☐ Open Access

[PDF \(762.2 KB\)](#) | [References](#)

Open Access

[Shear properties evaluation of natural fibre reinforced epoxy composites using V-notch shear test](#) 02004

Jauhar Fajrin and Nasmî Herlina Sari

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502004>[PDF \(762.0 KB\)](#) | [References](#)

Open Access

[Analytical prediction of tension force on stirrups in concrete beams longitudinally reinforced with CFRP bars](#) 02005

Rendy Thamrin

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502005>[PDF \(445.7 KB\)](#) | [References](#)

Open Access

[Experimental analysis of T-beam reinforced concrete with holes](#) 02006

Hotma Panggabean and Nickson Pakpahan

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502006>[PDF \(1013 KB\)](#) | [References](#)

Open Access

[Numerical analysis on stress and displacement of tapered cantilever castellated steel beam with circular openings](#) 02007

Taufiq Ilham Maulana, Hakas Prayuda, Bagus Soebandono, Martyana Dwi Cahyati and Eva Hanifatu Zahra

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502007>[PDF \(1.270 MB\)](#) | [References](#)

Open Access

[Numerical analysis of castellated beams with oval openings](#) 02008

Yanuar Setiawan, Ay Lie Han, Buntara Sthenly Gan and Junaedi Utomo

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502008>[PDF \(1.234 MB\)](#) | [References](#)

Open Access

[Numerical study on beam-column connection of cantilever precast concrete beam with asymmetric shape under static load](#) 02009

Hakas Prayuda, Robbi'al Rollyas Syandy, Bagus Soebandono, Taufiq Ilham Maulana and Martyana Dwi Cahyati

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502009>[PDF \(815.2 KB\)](#) | [References](#)

Open Access

[Analytical study on creep shear failures of RC slender beams without web reinforcement](#) 02010

Halwan Alfisa Saifullah, Kenichiro Nakarai, Nobuhiro Chijiwa and Koichi Maekawa

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502010>[PDF \(1.299 MB\)](#) | [References](#)

Open Access

[Building evaluation using two components of acceleration time histories causes by shallow crustal fault earthquakes with maximum magnitude 7 Mw](#) 02011

Windu Partono, Masyhur Irsyam, Indrastono Dwi Atmanto, Andi Retno Ari Setiaji, Sigit Purnomo and Robby Yanuar Setiawan

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502011>[PDF \(738.2 KB\)](#) | [References](#)

Open Access

[One-way translational magnetic mass damper model for structural response control against dynamic loadings](#) 02012[Nurulashikin Bahaman, Sk Muiz Sk Abdul Razak, Azlan Adnan, Norrazman Zaiha Zainol, Norhaizura Yahya, Khairunnisa Muhamad, Ahmad Nurfaidhi Rizalman, Mazidah Ezdiani Mohamad and Nur Adibah Ayuni Abd Malek](#)

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502012>[PDF \(487.6 KB\)](#) | [References](#)

Open Access

[A comparative study of base isolation devices in light rail transit structure featured with lead rubber bearing and friction pendulum system](#) 02013

Santi Nuraini, Asdam Tambusay and Priyo Suprobo

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502013>[PDF \(1.236 MB\)](#) | [References](#)

Open Access

[Improving resilience of moment frames using steel pipe dampers](#) 02014

Junaedi Utomo and Antonius

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OK

One-way translational magnetic mass damper model for structural response control against dynamic loadings

Nurulashikin Bahaman^{1,*}, Sk Muiz Sk Abdul Razak¹, Azlan Adnan², Norrazman Zaiha Zainol¹, Norhaizura Yahya¹, Khairunnisa Muhamad¹, Ahmad Nurfaidhi Rizalman³, Mazizah Ezdiani Mohamad⁴, and Nur Adibah Ayuni Abd Malek¹

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Abstract. Structural responses should be reduced to minimize the consequent structural damage caused by dynamic excitation. The one-way translational magnetic mass damper model is developed as a new type of damper for the purpose of structural response control. The damper utilizes the concept of repulsive force between magnets with same poles to create a magnetic force to stabilize or bring the structure back to its original position. The dynamic performance of the structure was tested using a harmonic shaking table. In this study, the three parameters used are excitation speeds: 2.5V (low), 6.0V (medium) and 8.5V (high); strength of magnets: weak (N35), medium (N45) and strong (N52); and the mass in the damper: 40 g, 101 g and 162 g. The correlations of the parameters towards the structural displacement are verified in the testing. The displacement is highly reduced up to 100% at the first level and 85.2% at the fifth level. The most optimum structural response control was attained when a strong magnetic strength and mass of 162 g are used. When tested with three excitation speeds; 2.5V, 6.0V and 8.5V, the damper with this setting provides the optimum damping effect towards the structure in terms of displacement.

1 Introduction

Dynamic loading is an external force exerted in certain amounts on a structure upholding them. The occurrence of dynamic loading or synonymously known as dynamic excitation

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-
-  Open Access
- [Application of high strength reinforcing bars in earthquake-resistant structure elements](#) 02015
Kurniawan Setiadi Kamaruddin, Iswandi Imran, Maulana Derry Imansyah, Muhammad Riyansyah and Aris Ariyanto
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502015>
[PDF \(1.188 MB\)](#) | [References](#)
-
-  Open Access
- [A comparison of retrofitting methods on nursing faculty building of Andalas University with concrete jacketing and shear wall systems](#) 02016
Fauzan, Febrin Anas Ismail, Oswin Dezardo and Zev Al Jauhari
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502016>
[PDF \(656.0 KB\)](#) | [References](#)
-
-  Open Access
- [Seismic performance of four-storey masonry infilled reinforced concrete frame building](#) 02017
Isyana Ratna Hapsari, Senot Sangadji and Stefanus Adi Kristiawan
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502017>
[PDF \(891.7 KB\)](#) | [References](#)
-
-  Open Access
- [A structural performance evaluation of vertical housing model due to the increased seismic loads in Semarang, Indonesia using a pushover analysis](#) 02018
Arnie Widyaningrum, Yanuar Haryanto and Nor Intang Setyo Hermanto
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502018>
[PDF \(871.9 KB\)](#) | [References](#)
-
-  Open Access
- [Dynamic bayesian updating approach for predicting bridge condition based on Indonesia-bridge management system \(I-BMS\)](#) 02019
Jojok Widodo Soetjipto, Tri Joko Wahyu Adi and Nadjadji Anwar
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502019>
[PDF \(576.7 KB\)](#) | [References](#)
-
-  Open Access
- [Influence of shape modification and stirrups on the axial capacity of concrete columns](#) 02020
Ida Bagus Rai Widiarsa and Ida Bagus Dharma Giri
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502020>
[PDF \(1.491 MB\)](#) | [References](#)
-
-  Open Access
- [Comparative study of behaviour of reinforced concrete beam-column joints with reference to monolithic and non-monolithic connection](#) 02021
Ninik Catur Endah Yuliati, Dewi Sri Murni, Wisnumurti and Wibowo Ari
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502021>
[PDF \(1.782 MB\)](#) | [References](#)
-
-  Open Access
- [Effect of monotonic lateral load on the performance of reinforced graded concrete column, an experimental study](#) 02022
M. Mirza Abdullah Pratama, B. Sri Umniati, Gista Prasiwi, Ay Lie Han, Buntara Sthenly Gan, Puput Risdanareni and Zhabrinna Zhabrinna
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502022>
[PDF \(547.1 KB\)](#) | [References](#)
-
-  Open Access
- [Stress-strain response of high-volume fly ash self-compacting concrete \(HVFA-SCC\) under uniaxial loading and its effect on the reinforced HVFA-SCC nominal strength](#) 02023
Stefanus Kristiawan, Sunarmasto, Agus S Budi and Desi C Kurniawati
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502023>
[PDF \(692.7 KB\)](#) | [References](#)
-
-  Open Access
- [High volume fly ash as substitution of fine aggregates with the proportion of 50%, 60%, and 70% to the shear strength of reinforced concrete beams](#) 02024
Ade Lisantono, Haryanto Yoso Wigroho and Daniel Krisna Murti
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502024>
[PDF \(1.217 MB\)](#) | [References](#)
-
-  Open Access
- [Analysis of floating house platform stability using polyvinyl chloride \(PVC\) pipe material](#) 02025
Aswad Asrasal, Slamet Imam Wahyudi, Henny Pratiwi Adi and Rick Heikoop
Published online: 22 August 2018
DOI: <https://doi.org/10.1051/mateconf/201819502025>

OK

The study of ultrasonic pulse velocity on plain and reinforced damaged concrete 02026

Ni Nyoman Kencanawati, Akmaluddin, Buan Anshari, Ahmad Gazi Paedullah and Mitsuhiro Shigeishi

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DOI: <https://doi.org/10.1051/mateconf/201819502026>[PDF \(932.0 KB\)](#) | [References](#) Open Access**Survey, investigation and repairing on concrete wall of waste water treatment building** 02027

Partogi H Simatupang and Jonbi

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DOI: <https://doi.org/10.1051/mateconf/201819502027>[PDF \(1.160 MB\)](#) | [References](#) Open Access**Predicting bending creep of laminated veneer lumber (LVL) sengon (Paraserianthes falcataria) beams from initial creep test data** 02028

Achmad Basuki, Ali Awaludin, Bambang Suhendro and Suprpto Siswosukarto

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502028>[PDF \(1021 KB\)](#) | [References](#) Open Access**Performance of glue laminated timber beams composed of sengon wood (Albizia falcata) and coconut wood (Cocos nucifera) with nylon-threads reinforcement** 02029

Kusnindar, Sri Murni Dewi, Agoes Soehardjono and Wisnumurti

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502029>[PDF \(1.425 MB\)](#) | [References](#) Open Access**Study of inertia weight parameter for boundary element inverse analysis to detect RC corrosion** 02030

Syarizal Fonna, Gunawarman and Syifaul Huzni

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502030>[PDF \(493.8 KB\)](#) | [References](#) Open Access**Analysis of steel reinforced functionally graded concrete beam cross sections** 02031

Shota Kiryu, Ay Lie Han, Ilham Nurhuda and Buntara S. Gan

Published online: 22 August 2018

DOI: <https://doi.org/10.1051/mateconf/201819502031>[PDF \(384.7 KB\)](#) | [References](#) Open Access**Aerodynamic performance of long span steel truss bridges in Indonesia** 02032

Suangga Made and Irpanni Herry

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DOI: <https://doi.org/10.1051/mateconf/201819502032>[PDF \(726.4 KB\)](#) | [References](#) Open Access**Diagonal reinforcement as strengthening to increase the stiffness and strength of concrete frame** 02033

Yenny Nurchasanah, Muhammad Ujianto and Abdul Rochman

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DOI: <https://doi.org/10.1051/mateconf/201819502033>[PDF \(425.5 KB\)](#) | [References](#) Open Access**Comprehensive condition assessment program on the fire damaged structure - a project case in Singapore** 02034

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OK

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-
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-
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OK

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 Open Access

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 Open Access

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 Open Access

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 Open Access

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OK

 Open Access

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 Open Access

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 Open Access

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 Open Access

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 Open Access

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Ninik Khorida, Mamok Suprpto and Syafri

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 Open Access

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 Open Access

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OK

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