List of Research Activities

Infrastructure Field

【Papers】

(1) Civil Engineering Works - Bridges
Ken-ichi Maeda

(2) Design and Serviceability of Slab Type Footbridge Using GFRP Pultrusion Profiles
Nobuhiko Kitayama (IHI Infrastructure Systems), Ken-ichi Maeda, Hitoshi Nakamura and Tetsuya Watanabe (AGC Matex)

(3) Vibration Serviceability of a Cable-Stayed Pedestrian Bridge over Railway Using Hybrid Composite Girder
Hitoshi Nakamura, Ken-ichi Maeda, Takayuki Watanabe (Taisei Co. Ltd.), Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)
JSCE, Proceedings of Colloquium on Bridge Vibration 2011, pp.142-149 (Sep. 2011) [in Japanese]

(4) Fatigue Life Prediction for Fatigue Crack Initiated at Welded Gusset Joints Repaired by Externally Bonded CFRP Strips
Hitoshi Nakamura, Fan Lin (Doctoral Student), Ken-ichi Maeda, Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.) and Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)
The 6th International Symposium on Steel Structures, ISSS2011, pp.671-677 (Nov. 2011)

(5) Trial Design and Serviceability of Cable-Stayed Pedestrian Bridge over Railway Using Hybrid Composite Girders
Hitoshi Nakamura, Ken-ichi Maeda, Takayuki Watanabe (Taisei Corp.), Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)

(6) Trial Design of Pedestrian Bridge over Railway Using Hybrid Composite Girder
Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Ishii (JR East Consultants Company), Yoshio Takaki (JR East Consultants Company), Hitoshi Nakamura, Ken-ichi Maeda

(7) Development and Verification of a GFRP Pedestrian Slab Bridge with Semi-fixed Support System
Nobuhiko Kitayama (IHI Infrastructure Systems), Ken-ichi Maeda, Hitoshi Nakamura, Tetsuya Watanabe (AGC Matex)

(8) Feasibility Study on Increasing Bending Stiffness of FRP Girders by Bonding CFRP Strips and Bonding Girder Sections
Onek Denis Obedi (PCKK), Shuhei Sugai (Master's Course Student), Hitoshi Nakamura, Ken-ichi Maeda and Ken-ichi Yaginuma (East Japan Railway Company)
The Third Asia-Pacific Conference on FRP in Structures, APFIS2012, 8 pages (CD-ROM), (Feb. 2012)

(9) Fundamental Study on Damped Free Vibration Characteristics of Carbon Fiber Composite Cable
Hitoshi Nakamura, Koji Nakagawa (Master’s Course Student), Ryo Tajima (Sagamihara City), Ken-ichi Maeda, Zhicheng Zhang (Zhejiang Univ.), Xie Xu (Zhejiang Univ.), Tsuyoshi Enomoto (Tokyo Rope Mfg.) and Ken-ichi Ushijima (Tokyo Rope Mfg.)

(10) Influence of Cyclic Load during Curing and Crack Bridging on Repair of Fatigue Crack using CFRP strip
Fan Lin (Doctoral Student), Hitoshi Nakamura, Ken-ichi Maeda, Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(11) A measurement of crevice corrosion of panel points of corroded steel truss bridge and an evaluation for corrosion state
T. Yamasawa (Kajima const.), K. Nogami, T. Koyama
Proceeding. of Eurosteel, Butapesto, pp.393-398 (Sep. 2011)

(12) Ultimate behavior and strength of 5-span continuous suspension bridges
S.Io (Pacific consultants), K. Nogami, K. Ikeda (Chodai Corp.), M. Nagai (Nagaoka Univ. of Tech.)
(13) Study on behavior of Steel Truss Bridge Gusset Plates under compression
H. Kasano (Waseda Univ.), T. Yoda (Waseda Univ.), K. Nogami, J. Murakoshi (PWRI), N. Toyama (PWRI), M. Sawada (PWRI), K. Arimura (PWRI), and L. Guo (PWRI)
The 11th Korea-Japan joint symposium on steel bridges, Korean society of steel construction (Aug. 2011)

(14) Study on Failure Modes of Steel Truss Bridge Gusset Plates Related to Tension and Shear Block Failure
H. Kasano (Waseda Univ.), T. Yoda (Waseda Univ.), K. Nogami, J. Murakoshi (PWRI), N. Toyama (PWRI), M. Sawada (PWRI), K. Arimura (PWRI), and L. Guo (PWRI)
International Journal of Steel Structures, Korea (2011)

(15) Compression loading test of corroded gusset plate connections in steel truss bridge
J. Murakoshi (PWRI), N. Toyama (PWRI), M. Sawada (PWRI), K. Arimura (PWRI), and L. Guo (PWRI), K. Nogami, T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.)
Japan-USA Bridge Work Shop (Nov. 2011)

(16) Measurement of corroded gusset plate connections of steel truss bridge and characteristics of corrosion state
K. Nogami, N. Yamamoto, T. Yamasawa, T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.), J. Murakoshi (PWRI), T. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI)

(17) ANALYSIS OF VEHICLE BEHAVIOR RELATING TO PEDESTRIAN SIGNAL
Takaaki Koide, Takashi Oguchi (Univ. of Tokyo), Shigenori Shikata, Hiroyuki Oneyama

(18) Spatial Economic Impacts of Power Supply Shortage by East Japan Earthquake
Tomoki ISHIKURA and Yoshifumi ISHIKAWA (Nanzan University)

(19) A Study on backward propagation and fixation of the queue head after the release from incident queue.
Makoto TANGO (University of Tokyo), Muneta YOKOMATSU (Kyoto University), Tomoki
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Journal of Japan Society of Civil Engineers, Ser. D3 (Infrastructure Planning and Management) Vol. 67, No. 4 pp.495-509 (Nov. 2011) [in Japanese]

【Oral Presentations】

(1) Experimental Study on Fatigue Crack Repair Using Drilled Holes and Externally Bonding CFRP Strips
Fan Lin (Doctoral Student), Ji Guang SUN (Master’s Course Student), Hitoshi Nakamura, Ken-ichi Maeda, Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(2) Fundamental Study on Damped Free Vibration Characteristics of CFCC and Damping Effect of Cable Damper
Koji Nakagawa (Master’s Course Student), Ryo Tajima (Oriental Consultants), Hitoshi Nakamura, Ken-ichi Maeda, Zhicheng Zhang (Zhejiang Univ.), Xie Xu (Zhejiang Univ.), Tsuyoshi Enomoto (Tokyo Rope Mfg.), Ken-ichi Ushijima (Tokyo Rope Mfg.)

(3) Experimental Study on Repair Method of Bonding CFRP strips Using Prestressing Device
Yuto Yamamura (Master’s Course Student), Fan Lin (Doctoral Student), Ji Guang SUN (Master’s Course Student), Hitoshi Nakamura, Ken-ichi Maeda, Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(4) Debonding Behavior and Safety of Adhesive Joint Section in GFRP Pedestrian Slab Bridge
Kariya Shogo (West Japan Railway Company), Seigo Fujita (Oriental Consultants), Hitoshi Nakamura, Ken-ichi Maeda, Nobuhiko Kitayama (IHI Infrastructure Systems), Tetsuya Watanabe (AGC Matex)

(5) Feasibility study on increasing bending stiffness of FRP girders by bonding CFRP strips
Onek Denis Obedi (PCKK), Hitoshi Nakamura, Ken-ichi Maeda, Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)

(6) Experimental Study on Joints of Hybrid FRP Members Using High-Strength Bolts and Adhesive
Keita Hamasaki (Master’s Course Student), Yousuke Katano (Master’s Course Student), Hitoshi Nakamura, Ken-ichi Maeda, Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)

(7) A Study on Connection of Main and Cross Girders in a Hybrid Composite Girder Cable-Stayed Bridge
Tatsuya Iida (Master’s Course Student), Maeda Ken-ichi, Nakamura Hitoshi, Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)

(8) Feasibility Study on Increasing Bending Stiffness of FRP Girders by Bonding Girder Sections
Shuuhei Sugai (Master’s Course Student), Hitoshi Nakamura, Ken-ichi Maeda, Ken-ichi Yaginuma (East Japan Railway Company)

(9) Elasto-plastic behavior and ultimate strength of 5-long span suspension bridges
S. Io (Pacific cons.), K.Nogami, M.Nagai (Nagaoka Univ. of Tech.) T.Ikeda (Chodai Corp.)

(10) Remaining ultimate strength of diagonal members of truss bridge which introduced imitation corrosion
S. Komine, K. Nogami, T. Yamasawa (Kajima Const.), T. Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI)
Proceedings of the 66th Annual Conference of JSCE, I-531 (Sep. 2011) [in Japanese]
(11) Shape measurement in the narrow part of panel point of steel truss bridge and the corrosion damage situation
K. Yamamoto, K. Nogami, T. Yamasawa (Kajima Const.), T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.), J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI)

(12) Ultimate strength characteristics of compression member with box section which used high strength steel
Y. Yamashita, K. Nogami

(13) Buckling safety verification of web panel with perpendicular patch loading
H. Hirayama (Dai Nihon Cons.), K. Nogami, S. Shimizu (Shinsyu Univ.)

(14) Study on block shear collapse of Gasset plate by compression force
H. Kasano (Waseda Univ.), T. Yoda (Waseda Univ.), K. Nogami, J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI)

(15) A study of ultimate strength of steel column with box section
K. Arimura (PWRI), J. Murakoshi (PWRI), N. Toyama (PWRI), K. Nogami, K. Ono (Osaka Univ.), H. Shimizu (Dai Nihon Cons.)

(16) Residual stress measurement of box-shaped member of steel truss bridge by the magnetic stress mensuration
K. Miura (Nagaoka Univ. of Tech.), T. Miyashita (Nagaoka Univ. of Tech.), M. Nagai (Nagaoka Univ. of Tech.), M. Sawada (PWRI), K. Nogami
Proceedings of the 29th Niigata Region Annual Conference of Kanto branch of JSCE (Nov. 2011) [in Japanese]

(17) Remaining ultimate strength test of virtual corroded column with box-section
S. Komine, K. Nogami, T. Yamasawa (Kajima Const.), T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.), J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L.
(18) The ultimate in-plane characteristics in the transverse directions of the steel tower of super long span suspension bridges
K. Sakuma, K. Nogami, Y. Morizono (Chodai Corp.), M. Nagai (Nagaoka Univ. of Tech.)

(19) Measurement of the corroded shape of gusset plate connections in steel truss bridges
S. Takahashi, K. Nogami, N. Yamamoto, T. Yamasawa (Kajima Const.), T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.), J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI)

(20) SIMULATION ANALYSIS ON THE APPLICABILITY OF AVERAGE SPEED MODEL FOR ESTIMATING VEHICULAR CO2 EMISSION
Hiroyuki Oneyama, ShuJie Lu, Takashi Oguchi (Univ. of Tokyo), Shigenori Shikata

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(22) STUDY ON ANALYSIS METHOD OF FREE ANSWERS IN THE QUESTIONNAIRE SURVEY USING MORPHOLOGICAL ANALYSIS: A CASE STUDY OF AN ATTITUDE SURVEY FOR UTILIZATION OF TRAM
Shunsuke Eino, Hiroyuki Oneyama, Takashi Oguchi (Univ. of Tokyo), Shigenori Shikata

(23) EMPIRICAL STUDY FOR ESTIMATING THE LOST TIME AT SIGNALIZED INTERSECTIONS
Takashi Oguchi (Univ. of Tokyo), Tomoko Yamaguchi, Shigenori Shikata, Hiroyuki Oneyama

(24) EMPIRICAL STUDY ON RELATIONSHIP BETWEEN CONNECTIVITY OF STREETS
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(26) DEVELOPMENT OF A HYBRID TRAFFIC SIMULATION FRAMEWORK FOR ENVIRONMENTAL EVALUATION FOR ITS APPLICATIONS
Hisatomo Hanabusa (ITL), Tomoyoshi Shiraishi (ITL), Katsuaki Koide (ITL), Ryota Horiguchi (ITL), Shinji Tanaka (Univ. of Tokyo), Masao Kuwahara (Tohoku Univ.), Takashi Oguchi (Univ. of Tokyo) and Hiroyuki Oneyama
Proceedings of 18th World Congress on Intelligent Transport Systems (Orlando), CD-ROM (Oct. 2011)

(27) ATTENTION-ATTRACTING FACILITIES UTILIZING PHOTOTAXIS
Kouji Yamamoto (Central Nippon Expressway), Hideki Takahashi (Central Nippon Expressway), Kazutoshi Tago (Nagoya Electric Works), Mitsuhiro Tsuji (Oriental Consultants), Hiroyuki Oneyama
Proceedings of 18th World Congress on Intelligent Transport Systems (Orlando), CD-ROM (Oct. 2011)

(28) EVALUATION OF CO2 EMISSION REDUCTION WITH "ECO-DRIVING" IN TOKYO'S 23 WARDS
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Proceedings of 10th Symposium on ITS, CD-ROM (Nov. 2011) [in Japanese]

(29) ACTUAL ROAD TESTING OF ATTENTION-ATTRACTING FACILITIES UTILIZING PHOTOTAXIS
Hiroyuki Kameoka (Central Nippon Expressway), Hideki Takahashi (Central Nippon Expressway), Koji Yamamoto (Central Nippon Expressway), Kazutoshi Tago (Nagoya Electric Works), Wakana Okada (Nagoya Electric Works), Mitsuhiro Tsuji (Oriental Consultants), Tatsuhide Kikoh (Oriental Consultants), Hiroyuki Oneyama
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(30) COMPARATIVE ANALYSIS OF MICROSCOPIC TRAFFIC SIMULATION IN VIEWPOINT OF REPRODUCIBILITY OF VEHICLE MOVEMENT AND CO2 EMISSION
Hiroyuki Oneyama, Satoshi Matsuda, Takashi Oguchi (Univ. of Tokyo), Shigenori Shikata

(31) Multi Section Trading Model with dividing a nation into some regions.
Akira Hamano (University of Tokyo) and Tomoki Ishikura
Proceedings of Infrastructure Planning (JSCE), No.44, CD-ROM (Nov. 2011) [in Japanese]

(32) Analysis of Dynamic Sharing of Disaster Risk and Investment for Disaster Prevention.
Shunsuke Segi (Kyoto University), Tomoki Ishikura and Muneta Yokomatsu (Kyoto University)
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(33) On the Inter-regional Financing Scheme of Infrastructure Management.
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Proceedings of Infrastructure Planning (JSCE), No.44, CD-ROM (Nov. 2011) [in Japanese]

(34) Economic Impacts of Power Supply Shortage and Electrical Demand Control Policies caused by Japan Earthquake
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(35) Influence of Depopulation on Regional Economy from a Point of View of Economic Geography
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(36) Strategic Hub Airport Investment Considering International Aviation Network
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【Others】

(1) Trend of the maintenance management of the steel structures and corrosion measurement at gusset plate connection of truss bridge
K. Nogami
Technical conference about maintenance management of the steel structures and the efficiency recovery, JSCE (May 2011) [in Japanese]

(2) How does performance of slab of the road bridge change?
K. Nogami, K. Ota (PWRC), T. Ogara (West Nippon Exp. Company), Y. Tachibana (JBCA), T. Shimozato (Ryukyu Univ.)
Study forum of annual conference of JSCE (Sep. 2011) [in Japanese]

(3) Structural calculation
K. Nogami
A seminar for bridge engineers in Tokyo metropolitan public corporation for toad improvement and management, January (Mar. 2011) [in Japanese]

(4) History and bridge in Sumida river and Onagi river - Coming around bridge of Sumida river -
A. Kawamura and K. Nogami
Text of open university of Tokyo metropolitan university (Oct. 2011) [in Japanese]

(5) Advanced Study Strategy of the Department of Civil & Environmental Engineering
K. Nogami
ISSUE2011 (Nov. 2011) [in Japanese]

(6) Common research report of evaluation technique on ultimate strength of corroded members of steel bridge - Examination on evaluation technique of remaining ultimate strength of the corroded
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J. Murakoshi (PWRI), N. Toyama (PWRI), K. Arimura (PWRI), M. Sawada (PWRI), L. Guo (PWRI), K. Nogami, T. Yoda (Waseda Univ.), H. Kasano (Waseda Univ.)

(7) R & D of ultimate strength characteristic of compression member with box section of actual steel bridge and multi ultimate strength curves
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(8) Current situation of the maintenance management and corrosion damage of gusset connection of steel truss bridge
K. Nogami
Subcommittee of long lifetime of steel structure, steel structure committee of JSCE (Jan. 2012) [in Japanese]

(9) Damage situation and analysis of the steel structures
K. Nogami, (co-authored)
Select committee of damage investigation of steel structures by Eastern Japan great earthquake, Steel structures of JSCE (Jan. 2012) [in Japanese]

(10) Load carrying capacity of steel and composite tower of 4 super suspension bridge
K. Sakuma, K. Nogami
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(11) Comparative study for strength character of 4 super long-span suspension bridges which differ sag ratio
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Journal of Water Supply: Research and Technology-Aqua 60.5, pp.294-304 (2011)

(5) A Study on Rational Planning Method for Water Distribution System Replacement
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(7) Reliability Assessment of Water Distribution Systems using Management Reliability Index
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LESAM 2011, IWA 4th Leading Edge Conference on Strategic Asset Management,(LESAM-056, 9 pages) (Sep. 2011)

(8) Development of a Prediction Model of Risk Level of Water Pipe by Markov Chain Monte Carlo (MCMC) Technique
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(9) A Study on Economical Planning Method for Replacement of Water Distribution System in Centurial Viewpoint
Masayuki MORI, Toyono INAKAZU, Akira KOIZUMI, Haruhiko WATANABE, Yasuhiro ARAI and Tsunehiko NISHIZAWA
The 4th IWA-ASPIRE Conference and Exhibition, 9-1-1(8 pages) (Oct. 2011)

(10) Optimized Operation of Water Distribution System using Multipurpose Fuzzy LP Model
Yasuhiro ARAI, Akira KOIZUMI, Toyono INAKAZU, Atushi MASUKO and Satoshi TAMURA
The 4th IWA-ASPIRE Conference and Exhibition, 13-2-2(8 pages) (Oct. 2011)

(11) Statistical Analysis of High Manganese Concentrations on Raw Water Quality Characteristics
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The 4th IWA-ASPIRE Conference and Exhibition, 11-6-2(8 pages) (Oct. 2011)

(12) Damage Discrimination Analysis for Sewage Pipe System with Quantification Theory
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(29) Development of modelling system to simulate hydrodynamic and environmental quantities in the Hai Phong estuary, Vietnam
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(31) A new concept for lower-lying land areas and coastal villages safe from natural disasters: Toward reconstruction for lost coastal area of Northeast Japan
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(32) Long-term morphological changes and hydrodynamics of tidal dominant coastal zone in the Hai Pong estuary, Vietnam
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(41) Effects of adsorbed EPS to sediment particle on rheology properties
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(1) Improvement Effects of Wastewater Treatment with Water Purification Sludge Added to Sewer
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(2) A Study on Pipeline Rehabilitation Planning Using Pipeline Accidental Damage Occurrence Model
Mincheol KIM, Toyono INAKAZU, Akira KOIZUMI and Jayong KOO

(3) Visualization of Water Supply Energy Consumption Based on Digital Residential Maps
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(4) A Study on the Reduction of Chlorine Residuals Concentration at the Distribution Reservoir
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【Others】

Safety and Disaster Prevention Field

【Papers】

(1) Evaluation for Flexural Capacity of Thin Reinforced Concrete Members
Kimitaka UJI, Kentaro OHNO, Ayano NAKASHIMA, Katsuro KOKUBU and Kazuhisa SHIMIZU
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(8) Failure Process in Shear Bonding Strength Tests between Existing Concrete and Repairing Material by Acoustic Emission Technique
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(9) Estimation of AE Source Mechanisms in Bonding Surface between Existing Concrete and Repairing Material under Shear Tests
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(10) Investigation of Shear Bonding Fracture Process in Bi-Surface Shear Tests by Acoustic Emission
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(11) Influence of Curing Temperature Change to Performance of Fly Ash as Cementitious Material
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(12) A Study on Temperature Controlling of Sidewalk Pavement during Summer
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(14) The Influence of Constitutive Laws and Analytical Region Size of FEM Analysis for Shallow Tunnels
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(15) Shape Effect of Hybrid Structure Invert as Measures for Improving Deformation
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(16) Model Tests on the Influence of Face Shapes for Unsupported Tunnels in Granular Material
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(4) A Study on Decrease Temperature in Pavement Materials of Sidewalk
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(5) Relationship between Crushing value of Coarse Aggregate and Drying Shrinkage in Concrete
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(24) Dynamic Loading Test of CFRP Retrofitting Beam Adhesive Performance
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