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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (Dr), Turkey 2017 - Continues

Research Areas

Civil Engineering, Structure

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A lattice modelling framework for fracture-induced acoustic emission wave propagation in concrete**
Zhou Y., AYDIN B. B., Zhang F., Hendriks M. A., Yang Y.
Engineering Fracture Mechanics, vol.312, 2024 (SCI-Expanded)
- II. **Maximum Drift Demands of Earthquake Damaged Reinforced Concrete Columns Based on Residual Flexure Cracks**
AYDIN B. B., BİNİCİ B., AKTAŞ S. S., Hendriks M. A. N., TUNCAY K.
Bulletin of Earthquake Engineering, vol.22, no.8, pp.4055-4081, 2024 (SCI-Expanded)
- III. **Lattice modeling and testing of aerated autoclaved concrete infilled frames**
AYDIN B. B., BİNİCİ B., Hendriks M. A. N., TUNCAY K.
ENGINEERING STRUCTURES, vol.251, 2022 (SCI-Expanded)
- IV. **Lattice simulation of concrete compressive behaviour as indirect tension failure**
AYDIN B. B., BİNİCİ B., TUNCAY K.
MAGAZINE OF CONCRETE RESEARCH, vol.73, no.8, pp.394-409, 2021 (SCI-Expanded)
- V. **Transmission dynamics of Covid-19 in Italy, Germany and Turkey considering social distancing, testing and quarantine**
GÜL S., TUNCAY K., BİNİCİ B., AYDIN B. B.

JOURNAL OF INFECTION IN DEVELOPING COUNTRIES, vol.14, no.7, pp.713-720, 2020 (SCI-Expanded)

VI. Simulation of Reinforced Concrete Member Response Using Lattice Model

Aydın B. B., Tuncay K., Binici B.

JOURNAL OF STRUCTURAL ENGINEERING, vol.145, 2019 (SCI-Expanded)

VII. Overlapping Lattice Modeling for concrete fracture simulations using sequentially linear analysis

Aydın B. B., Tuncay K., Binici B.

STRUCTURAL CONCRETE, vol.19, pp.568-581, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. Simulation of elastic wave propagation with lattice model

Zhou Y., Aydın B. B., Yang Y.

Special Issue of e-Journal of Nondestructive Testing (eJNDT), vol.29, no.10, pp.1-8, 2024 (Conference Book)

Refereed Congress / Symposium Publications in Proceedings

I. LATTICE APPROACH FOR NONLINEAR ANALYSIS FOR REINFORCED CONCRETE FRAMES

AYDIN B. B., TUNCAY K., BİNİCİ B.

5th INTERNATIONAL CONFERENCE ON EARTHQUAKE ENGINEERING AND SEISMOLOGY, 8 - 11 November 2019

II. Overlapping Lattice Approach for Nonlinear Analysis of Reinforced Concrete Columns

AYDIN B. B., TUNCAY K., BİNİCİ B.

13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018

III. Overlapping Lattice Simulation of Concrete Gravity Dam Collapse Simulations

SOYSAL B. F., AYDIN B. B., TUNCAY K., ARICI Y., BİNİCİ B.

COMPDYN 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 15 - 17 June 2017

IV. EFFECT OF DOUBLE-SLOTTED BEAMS ON THE FRAME BEHAVIOR

ALDEMİR A., AYDIN B. B.

17. International Scientific Conference, 8 - 09 June 2017

V. Overlapping Lattice Model for Concrete Fracture Simulations

AYDIN B. B., TUNCAY K., BİNİCİ B.

12th International Conference on Advances in Civil Engineering, 21 - 23 September 2016

VI. Overlapping Lattice Model for Fracture Initiation and Propagation

AYDIN B. B., TUNCAY K., BİNİCİ B.

First International Conference on Natural Hazards and Infrastructure, Chania, Greece, 28 - 30 July 2016

Metrics

Publication: 14

Citation (WoS): 39

Citation (Scopus): 41

H-Index (WoS): 4

H-Index (Scopus): 4