

## Lect. SELMAN TEZCAN

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### Education Information

Doctorate, University of Rochester, Hajim School of Engineering & Applied Sciences, Hajim School of Engineering, United States Of America 2016 - 2022

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey 2008 - 2012

### Research Areas

Mechanical

### Academic Titles / Tasks

Lecturer PhD, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A macroblock 2D finite element model for assessing the roots of failure of Huaca de la Luna's main pyramid (Peru) under seismic action**  
Riccio C., Remus A., Tezcan S., Silva L. C., Milani G., Perucchio R.  
Engineering Failure Analysis, vol.151, 2023 (SCI-Expanded)

### Books & Book Chapters

- I. **Nonlinear 2D and 3D Finite Element Static and Dynamic Analyses of the Main Pyramid of Huaca de la Luna, Peru**  
TEZCAN S., Pando M., Aguilar R., Perucchio R.  
in: Structural Analysis of Historical Constructions, SAHC 2023, Yohei Endo, Toshikazu Hanazato, Editor, RILEM Bookseries, Springer, Cham, Kyoto, pp.957-970, 2023
- II. **Effect of Eastern Architecture and Sloping Foundation Conditions on the Static and Dynamic Response of the Adobe Pyramid Huaca De La Luna (Perú)**  
Remus A., Yilmaz L., TEZCAN S., Perucchio R.  
in: Structural Analysis of Historical Constructions, SAHC 2023, Yohei Endo, Toshikazu Hanazato, Editor, RILEM

Bookseries, Springer, Cham, Kyoto, pp.971-984, 2023

**III. Lateral Capacity Assessment of the Main Pyramid of Huaca de la Luna (Peru) Using 2D Finite Element Macroblock Model**

Riccio C., Remus A., TEZCAN S., Grillanda N., Milani G., Perucchio R.

in: Structural Analysis of Historical Constructions, SAHC 2023, Yohei Endo, Toshikazu Hanazato, Editor, RILEM Bookseries, Springer, Cham, Kyoto, pp.170-183, 2023

**IV. STRUCTURAL ASSESSMENT UNDER LATERAL ACCELERATIONS OF A CONCRETE VAULTED MAYA BUILDING OF BONAMPAK, CHIAPAS, MEXICO**

Hamad O., Sennyondo J., Kimanya H., Nguyen D., TEZCAN S., Perucchio R.

in: REHABEND 2022 - CONSTRUCTION PATHOLOGY, REHABILITATION TECHNOLOGY AND HERITAGE MANAGEMENT, HAYDEE BLANCO, YOSBEL BOFFILL, IGNACIO LOMBILLO, Editor, Círculo Rojo, Granada, pp.822-829, 2022

### **Refereed Congress / Symposium Publications in Proceedings**

**I. DAMAGE ASSESSMENT VIA TIME HISTORY ANALYSIS OF THE MASSIVE EARTHEN PYRAMID OF HUACA DE LA LUNA, PERU**

Remus A., TEZCAN S., Pando M., Aguilar R., Perucchio R.

WCEE 18, Milan, Italy, 30 June - 05 July 2024

**II. SEISMIC FAILURE ANALYSIS OF COMPLEX HERITAGE MASONRY STRUCTURES USING ENERGY OUTPUTS OF FINITE ELEMENT ANALYSIS**

Remus A., TEZCAN S., Sun J., Milani G., Perucchio R.

REHABEND 2024, Gijón, Spain, 7 - 10 May 2024, pp.660-668

**III. Numerical assessment of lateral capacity of concrete Maya vaults at Bonampak, Chiapas, Mexico**

Remus A., Kimanya H., Tezcan S., Perucchio R.

Seventeenth International Conference on Civil, Structural and Environmental Engineering Computing, Civil-Comp 2023, Pécs, Hungary, 28 - 31 August 2023, vol.6

**IV. TOP DENGELEME SİSTEMİNİN DOĞRUSAL KUADRATİK KONTROL TASARIMI**

TEZCAN S., BAŞARAN S.

BİLSEL 1. BİLSEL INTERNATIONAL EFES SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS, İzmir, Turkey, 22 July 2023, pp.69-81

**V. SEISMIC VULNERABILITY ASSESSMENT OF VAULTED MAYA CONCRETE TEMPLES IN BONAMPAK, CHIAPAS, MÉXICO**

Kimanya H., Remus A., Hamad O., Sennyondo J., Nguyen D., TEZCAN S., Perucchio R.

9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2023, Atina, Greece, 12 June 2023

**VI. Effect of sloping sand/bedrock interface on the static and dynamic response of the adobe pyramid of Huaca de la Luna, Perú.**

Remus A., Yilmaz L., TEZCAN S., Perucchio R.

Engineering Mechanics Insitute Conference 2022, Baltimore, United States Of America, 31 May 2022

**VII. The Structural Function of the Dutch Buttressing of the East Curtain Wall of Elmina Castle, Elmina, Ghana**

Sun J., TEZCAN S., Perucchio R.

12th International Conference on Structural Analysis of Historical Constructions, Barcelona, Spain, 29 September - 01 October 2021, pp.457-468

**VIII. Preliminary Structural Analysis of the Western Curtain Wall of Elmina Castle, Elmina, Ghana**

dos Santos M., Abelezele S., Korslund K., Cecil R., TEZCAN S., Perucchio R.

12th International Conference on Structural Analysis of Historical Constructions, Barcelona, Spain, 29 September 2021, pp.1170-1182

**IX. ROLE OF REPEATED SEISMIC EVENTS ON THE COLLAPSE OF TWO CALIDARIA IN ROME DATING BACK**

## **TO THE IMPERIAL AGE**

Faleri F., Grillanda N., TEZCAN S., Perucchio R., Milani G.

8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Athens, Greece, 28 June 2021, vol.1, pp.406-414

### **X. PRELIMINARY NONLINEAR STATIC AND DYNAMIC ANALYSIS OF THE MAIN PYRAMID OF HUACA DE LA LUNA, PERU**

Tezcan S., Pando M., Aguilar R., Castaneda B., Rojas C., Perucchio R.

8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2021), Athens, Greece, 28 - 30 June 2021, pp.244-253

### **XI. On the application of quasi-static nonlinear explicit fe formulation to the evaluation of the lateral capacity of masonry structures. Compdyn 2019**

Perucchio R., TEZCAN S., Sun J.

7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Creteil, France, 24 - 26 June 2019