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Advising Theses

- ÜNLÜSOY Y. S. , Optimization of ride comfort for vehicles equipped with passive and active hydro-pneumatic suspensions, Doctorate, F.SAĞLAM(Student), 2016
- ÜNLÜSOY Y. S. , Steering dynamics of tracked vehicles, Post Graduate, M.NURİ(Student), 2016
- ÜNLÜSOY Y. S. , Modeling and active steering control of articulated vehicles with multi-axle semi-trailers, Post Graduate, M.UĞUR(Student), 2015
- ÜNLÜSOY Y. S. , Modeling, simulation, and active control of tractor-semitrailer combinations, Post Graduate, S.ALAMDARI(Student), 2015
- ÜNLÜSOY Y. S. , Design and analysis of helical coil spring forms for independent suspensions of automobiles, Post Graduate, G.YAZAR(Student), 2015
- ÜNLÜSOY Y. S. , Modeling and simulation of high speed railway vehicle dynamics, Post Graduate, T.YÜKSEL(Student), 2010
- ÜNLÜSOY Y. S. , Identification of low order vehicle handling models from multibody vehicle dynamics models, Post Graduate, F.SAĞLAM(Student), 2010
- ÜNLÜSOY Y. S. , OPTIMIZATION OF SUSPENSION PARAMETERS TO IMPROVE IMPACT HARSHNESS OF ROAD VEHICLES, Post Graduate, M.AYDIN(Student), 2009
- ÜNLÜSOY Y. S. , MATHEMATICAL MODELING AND SIMULATION OF TRACKED VEHICLE DYNAMICS, Doctorate, K.ÇALIŞKAN(Student), 2009
- ÜNLÜSOY Y. S. , Development of a control strategy for road vehicles with semi-active suspensions using a full vehicle ride model, Post Graduate, Z.ERDOĞAN(Student), 2009
- ÜNLÜSOY Y. S. , Design and simulation of an integrated active yaw control system for road vehicles, Post Graduate, G.TEKİN(Student), 2008
- ÜNLÜSOY Y. S. , Identification of inertia tensor of vehicles, Post Graduate, E.KUTLUAY(Student), 2007
- ÜNLÜSOY Y. S. , Finite element analysis of cornering characteristics of rotating tires, Doctorate, M.AKİF(Student), 2003
- ÜNLÜSOY Y. S. , Computer simulation of dynamic behavior of pneumatic tires, Doctorate, E.TÖNÜK(Student), 1998

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A new contact & slip model for tracked vehicle transient dynamics on hard ground**
Ozdemir M. N. , Kilic V., ÜNLÜSOY Y. S.
JOURNAL OF TERRAMECHANICS, vol.73, pp.3-23, 2017 (Journal Indexed in SCI)
- **Adaptive ride comfort and attitude control of vehicles equipped with active hydro-pneumatic suspension**
Saglam F., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.71, pp.31-51, 2016 (Journal Indexed in SCI)
- **Optimization of suspension parameters to improve impact harshness of road vehicles**
Aydin M., ÜNLÜSOY Y. S.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.60, pp.743-754, 2012 (Journal Indexed in SCI)
- **Design and simulation of an integrated active yaw control system for road vehicles**

Tekin G., ÜNLÜSOY Y. S.

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.5-19, 2010 (Journal Indexed in SCI)

● **Design and simulation of an ABS for an integrated active safety system for road vehicles**

Sahin M., ÜNLÜSOY Y. S.

INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.52, pp.64-81, 2010 (Journal Indexed in SCI)

● **Optimization of Speed Control Hump Profiles**

BAŞLAMIŞLI S. Ç. , ÜNLÜSOY Y. S.

● JOURNAL OF TRANSPORTATION ENGINEERING, vol.135, pp.260-269, 2009 (Journal Indexed in SCI)

● **Steering strategies for multi-axle vehicles**

Bayar K., ÜNLÜSOY Y. S.

INTERNATIONAL JOURNAL OF HEAVY VEHICLE SYSTEMS, vol.15, pp.208-236, 2008 (Journal Indexed in SCI)

● **A fuzzy logic controlled Anti-lock Braking System (ABS) for improved braking performance and directional stability**

YAZICIOĞLU Y., ÜNLÜSOY Y. S.

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● **Identification of linear handling models for road vehicles**

ARIKAN K. B. , ÜNLÜSOY Y. S. , Korkmaz I., Celebi A. O.

● VEHICLE SYSTEM DYNAMICS, vol.46, pp.621-645, 2008 (Journal Indexed in SCI)

● **Prediction of automobile tire cornering force characteristics by finite element modeling and analysis**

Tonuk E., Unlusoy Y. S.

● COMPUTERS & STRUCTURES, vol.79, pp.1219-1232, 2001 (Journal Indexed in SCI)

● **Integrated FEM/BEM approach to the dynamic and acoustic analysis of plate structures**

Kopuz S., Unlusoy Y., Caliskan M.

● ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.17, pp.269-277, 1996 (Journal Indexed in SCI)

● **NONLINEAR DYNAMIC-MODEL AND ITS SOLUTION FOR A HIGH-SPEED CAM MECHANISM WITH COULOMB-FRICTION**

UNLUSOY Y., TUMER S.

● JOURNAL OF SOUND AND VIBRATION, vol.169, pp.395-407, 1994 (Journal Indexed in SCI)

● **ANALYTICAL DYNAMIC-RESPONSE OF ELASTIC CAM-FOLLOWER SYSTEMS WITH DISTRIBUTED-PARAMETER RETURN SPRING**

UNLUSOY Y., TUMER S.

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● **NONDIMENSIONAL ANALYSIS OF JUMP PHENOMENON IN FORCE-CLOSED CAM MECHANISMS**

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Refereed Congress / Symposium Publications in Proceedings

● **Product Based Material Testing for Hyperelastic Suspension Jounce Bumper Design with FEA**

Caliskan K., KONUKSEVEN E. İ. , ÜNLÜSOY Y. S.

3rd International Conference on Advanced Design and Manufacture, Nottingham, United Kingdom, 8 - 10

September 2010, vol.450, pp.119-120

● **BOUNDARY-ELEMENT METHOD IN THE DEVELOPMENT OF VEHICLE BODY STRUCTURES FOR BETTER INTERIOR ACOUSTICS**

KOPUZ S., UNLUSOY Y., CALISKAN M.

8th International Conference on Boundary Element Technology (BETECH 93), VILAMOURA, Portugal, 9 - 11

November 1993, pp.57-66

Citations

Total Citations (WOS):151

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