## **Vietnam Journal of Mechanics**

**Volume 47 · Number 3 · September 2025** 

## RESEARCH ARTICLE

Effect of initial stress on the reflection and transmission of shear horizontal waves at	
the interface between two transversely isotropic elastic half-spaces	
Do Xuan Tung	195
Cascade control for feed drive systems	
Ngo Hong Nam, Tran Thuy Uyen Phuong, Vo Lam Chuong, Truong Nguyen Luan Vu	208
Embedded machine learning for fault detection in conveyor systems using multi-sensor data	
and discrete wavelet transform	
Hoang Duc Do, Quang Minh Vien, Khang Hoang Vinh Nguyen, Can Duy Le	223
Magnetic and electrical properties of H13 tool steel by bound metal deposition 3D printing:	
Annealed and non-annealed	
Le Hoang Trong Minh, Do Qui Duyen, Ngo Chi Vinh, Nguyen Quoc Hung, Le Vu Phuong Trinh	235
Simulation of the effect of mortar-aggregate interface on meso-scale damage behavior of	
steel fiber-reinforced concrete	
Hoang-Quan Nguyen, Bao-Viet Tran, Gia-Khuyen Le, Thi-Huong-Giang Nguyen	248
Numerical investigation of electro-conjugate fluid micro-pump under the effects of	
downstream angle and the negative electrode width	
Van Tran Do, The Khanh Lai, Toan Thang Vu, Thi Anh Nguyen, Ich Long Ngo	259
Formulas for the velocity of Stoneley waves at the unbonded interface between	
two micropolar elastic half-spaces	
Pham Thi Ha Giang, Ngo Van Trung, Pham Chi Vinh	275

Instructions for Authors of Vietnam Journal of Mechanics are available at https://vjs.ac.vn/index.php/vjmech
Printed in Vietnam by Hoang QuocViet Technology and Science Joint Stock Company Copyright deposit in 09/2025.