

# Documentation

## **Dynamics and Controls**

Zhu F., Peck M., "Linearized Dynamics of General Flux-Pinned Interfaces," in IEEE Transactions on Applied Superconductivity. doi: 10.1109/TASC.2018.2844375

Zhu F., Jones-Wilson L. and Peck M., "Flux-Pinned Dynamics Model Parameterization and Sensitivity Study," in AIAA Journal of Information Systems. doi: 10.2514/1.I010714

## **Spacecraft Systems**

Zhu F., Jones-Wilson L. and Peck M., "A Concept for Capturing and Docking Spacecraft with Flux-Pinned Interfaces," in 67th International Astronautical Congress, Guadalajara, Mexico, 2016.

Zhu F., Dominguez M., Jones-Wilson L. and Peck M., "Flight-Experiment Validation of the Dynamic Capabilities of a Flux-Pinned Interface as a Docking Mechanism," in IEEE Aerospace Conference, Big Sky, Montana, 2019.

Zhu F., Jones-Wilson L. and Peck M., "Reduced Embedded Magnetic Field in Type II Superconductor of Finite Dimension," in IEEE Transactions on Applied Superconductivity. doi: 10.1109/TASC.2020.2976592

## **Machine Learning**

Zhu F., Elliott D.S., Yang Z., Zheng H., "Genetic Algorithms for Autonomous, Learned Robotic Exploration in Extreme, Unknown Environments," in IEEE Aerospace Conference, Big Sky, Montana, 2019.

## **Physical Phenomena**

Zhu F., Jones-Wilson L. and Peck M., "Reduced Embedded Magnetic Field in Type II Superconductor of Finite Dimension," in IEEE Transactions on Applied Superconductivity. doi: 10.1109/TASC.2020.2976592