Physics-Based Charge Model for Fin-Tube and Microchannel Heat Exchangers

Project Number 22-03

Goal
This project aims to increase charge prediction accuracy levels to better than 10% through an experimentally validated artificial neural network void fraction tuning, retaining physics

Outcomes/Deliverables
This project will deliver a high fidelity HX charge data set, and a validated ANN enhanced void fraction submodel for the CIBS xFin simulation model