## FLORIDA STATE UNIVERSITY COLLEGE OF ENGINEERING

## CRITICAL CURRENT DISTRIBUTIONS IN MULTIFILAMENTARY ${\rm Bi_2Sr_2CaCu_2O_{8+x}~ROUND~WIRES}$

Ву

## SHAON BARUA

A Dissertation submitted to the Program in Materials Science and Engineering in partial fulfillment of the requirements for the degree of Doctor of Philosophy

2024

Shaon Barua defended this dissertation on March 29, 2024. The members of the supervisory committee were: David Larbalestier Professor Directing Dissertation Vincent Salters University Representative Eric Hellstrom Committee Member Ulf Trociewitz Committee Member Theo Siegrist Committee Member Christianne Beekman

Michael Shatruk

Committee Member

Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.