FLORIDA STATE UNIVERSITY

COLLEGE OF ARTS AND SCIENCES

DYNAMICS OF REVERSIBLE AND IRREVERSIBLE FOULING AND OPTIMAL CONTROL

ANALYSIS OF BACKWASHING TIMING FOR HOLLOW-FIBER MICROFILTRATION

By

DENIZ OZTURK

A Dissertation submitted to the
Department of Mathematics
in partial fulfillment of the
requirements for the degree of
Doctor of Philosophy

2020

Deniz Ozturk defended this dissertation on July 17, 2020.
The members of the supervisory committee were:

Nick Cogan

Professor Directing Dissertation

Fred Huffer

University Representative

Richard Bertram

Committee Member

Mark Sussman

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.