## GROWTH AND MAGNETOELASTIC BEHAVIOR OF b-AXIS-ORIENTED DYSPROSIUM

BY

## KENNETH ALLAN RITLEY

B.S., Sonoma State University, 1988 M.S., University of Massachusetts at Amherst, 1990

## THESIS

Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Physics in the Graduate College of the University of Illinois at Urbana-Champaign, 1998

Urbana, Illinois