

Accepted by the Faculty of the Graduate College, The University of Vermont, in partial fulfillment of the requirements for the degree of Doctor of Philosophy, specializing in Mathematical Sciences.

Dissertation Examination Committee:

_____ Advisor
George F. Pinder, Ph.D.

Robert K. Wright, Ph.D.

Jun Yu, Ph.D.

_____ Chairperson
David E. Dougherty, Ph.D.

_____ Interim Dean,
Andrew R. Bodman, Ph.D. Graduate College

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