



**Southern**<sup>™</sup>  
Illinois University  
Carbondale

**Dissertation Approval**  
The Graduate School  
Southern Illinois University

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I hereby recommend that the dissertation prepared under my supervision by

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Entitled

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be accepted in partial fulfillment of the requirements for the

DOCTOR OF PHILOSOPHY degree

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*In Charge of Dissertation*

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*Head of Department*

Recommendation concurred in

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2. \_\_\_\_\_

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Committee  
for the  
Final Examination