

**THREE DIMENSIONAL STRESS AND STRAIN  
RELATIONSHIP OF AORTIC VESSEL**

**PANNATHAI KHAMDAENGYODTAI**

**DOCTOR OF PHILOSOPHY  
IN MECHANICAL ENGINEERING**

**THE GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY**

**MAY 2012**

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**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY  
IN MECHANICAL ENGINEERING**

**THE GRADUATE SCHOOL  
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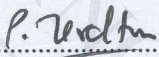
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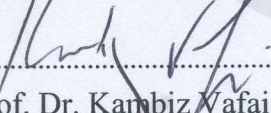
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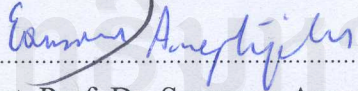
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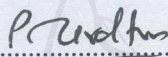
  
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
  
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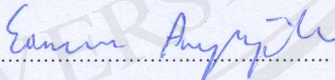
  
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