

**DEPARTMENT OF HIGHER EDUCATION AND TRAINING**  
**REPUBLIC OF SOUTH AFRICA**  
NATIONAL CERTIFICATE  
ENGINEERING SCIENCE N4  
TIME: 3 HOURS  
MARKS: 100

*Aug 2012*

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**INSTRUCTIONS AND INFORMATION**

1. Answer ALL the questions.
  2. Read ALL the questions carefully.
  3. Number the answers correctly according to the numbering system used in this question paper.
  4. Subsections of questions should be kept together. Rule off across the page after each question.
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**Ying-Ying Zheng**



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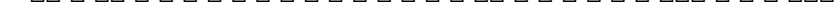
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