# DEPARTMENT OF EDUCATION REPUBLIC OF SOUTH AFRICA

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NATIONAL CERTIFICATE ELECTROTECHNICS N5 TIME: 3 HOURS MARKS: 100



#### QUESTION 1

1.3 
$$V = 550 V$$
  $P = 44 kW$ .  $N = 1500 rpm$   $\eta = 85\% = 0.85$ 

1.3.2 Output = 
$$\frac{2 \pi N T}{60}$$

Ia = I - If = 
$$164,7-1,8$$
 =  $162,9 \text{ A} \sqrt{\phantom{0}}$ 

$$V = E + Vb + Va (at start) E = 0 Va = Ia (Ra + x)$$

(4)

(3)

(3)

# **Electrotechnics Question Papers**

**LL Leslie** 

### **Electrotechnics Question Papers:**

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Wavelet Analysis And Active Media Technology (In 3 Volumes) - Proceedings Of The 6th International Progress Stephane Jaffard, Ching Yee Suen, John Daugman, Victor Wickerhauser, Bruno Torresani, John Yen, Ning Zhong, Sankar Kumar Pal,2005-07-06 Wavelet analysis and its applications have been one of the fastest growing research areas in the past several years Wavelet theory has been employed in numerous fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and many other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book captures the essence of the current state of the art in wavelet analysis and active media technology It includes nine invited papers by distinguished researchers P Zhang T D Bui and C Y Suen from Concordia University Canada N A Strelkov and V L Dol nikov from Yaroslavl State University Russia Chin Chen Chang and Ching Yun Chang from Taiwan S S Pandey from R D University India and I L Bloshanskii from Moscow State Regional University Russia The proceedings have been selected for coverage in Physical Review ,1894 Vols for 1903 include Proceedings of the American Physical Society The Electronics Journal ,1914 The physical review : a journal of experimental and theoretical physics ,1894 Archives of Radiology and Electrotherapy ,1921

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