

DEPARTMENT OF EDUCATION  
REPUBLIC OF SOUTH AFRICA  
NATIONAL CERTIFICATE  
ELECTROTECHNICS N5  
TIME: 3 HOURS  
MARKS: 100

**QUESTION 1**

1.1 By reversing either the field  $\checkmark$  or armature connections.  $\checkmark$  (2)

1.2 They are placed in slots in the pole shoes.  $\checkmark$  They are connected in series with the armature windings.  $\checkmark$  (2)

1.3  $V = 550 \text{ V}$      $P = 44 \text{ kW}$      $N = 1500 \text{ rpm}$      $\eta = 85\% = 0.85$   
 $R_a = 0.32$      $I_f = 1.8 \text{ A}$      $I_a R_b = 3.5 \text{ V}$

1.3.1  $\text{Input} = \frac{\text{Output}}{\eta} = 44 / 0.85 = 51.765 \text{ kW} \checkmark$

$I_L = P / V = 51765 / 550 \checkmark = 94.12 \text{ A} \checkmark$  (3)

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

$44000 = \frac{2 \pi 1500 T}{60} \checkmark$

$T = \frac{44000 \times 60}{2 \pi 1500} \checkmark$

$= 280.25 \text{ Nm} \checkmark$  (3)

1.3.3  $\text{Starting current} = 1.75 \text{ (full load)} = 1.75 \times 94.12 = 164.7 \text{ A} \checkmark$

$I_a = I - I_f = 164.7 - 1.8 = 162.9 \text{ A} \checkmark$

$V = E + V_b + V_a \text{ (at start)} \quad E = 0 \quad V_a = I_a (R_a + x)$

$550 = 0 + 3.5 + 162.9 (0.32 + x) \checkmark$

$x = \frac{550 - 55.63}{16.9}$

$= 2.035 \text{ ohms} \checkmark$

(4)

# N5 Electrotechnics Exam Papers

**M Walker**



## **N5 Electrotechnics Exam Papers:**

*Learning Electricity and Electronics with Advanced Educational Technology* Michel Caillot, 2013-06-29 The objective of the NATO Advanced Research Workshop Learning electricity and electronics with advanced educational technology was to bring together researchers coming from different domains Electricity education is a domain where a lot of research has already been made The first meeting on electricity teaching was organized in 1984 by R Duit W Jung and C von Rhoneck in Ludwigsburg Germany Since then research has been going on and we can consider that the workshop was the successor of this first meeting Our goal was not to organize a workshop grouping only people producing software in the field of electricity education or more generally in the field of physics education even if this software was based on artificial intelligence techniques On the contrary we wanted this workshop to bring together researchers involved in the connection between cognitive science and the learning of a well defined domain such as electricity So during the workshop people doing research in physics education cognitive psychology and artificial intelligence had the opportunity to discuss and exchange These proceedings reflect the different points of view The main idea is that designing a learning environment needs the confrontation of different approaches The proceedings are organized in five parts which reflect these different aspects

The Transactions of the Institute of Electronics and Communication Engineers of Japan Denshi Tsūshin Gakkai, 1977

**Proceedings of the IEEE 1989 National Aerospace and Electronics Conference, NAECON 1989**, 1989 **Report on the Fourteenth Annual Conference on Physical Electronics Held March 25, 26 and 27, 1954**, 1954

Communication Electronics Louis E. Frenzel, 1994 Communication Electronics is a comprehensive introduction to communication circuits and systems for students with a background in basic electronics All of the chapters have been revised and updated to include the latest circuitry systems and applications **Current Index to Journals in Education**, 1995

**Proceedings - Institution of Radio and Electronics Engineers Australia** Institution of Radio and Electronics Engineers, Australia, 1969 Publications of the National Institute of Standards and Technology 1988 Catalog Rebecca J. Pardee, National Institute of Standards and Technology (U.S.), 1989 Drum, 2002 **Now You're Talking!** James E. Kearman, 1993 U.S. Government Research & Development Reports, 1967 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1988 **Publications** United States. National Bureau of Standards, 1989 *Electrical & Electronics Abstracts*, 1997 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1979 Issues for 1973 cover the entire IEEE technical literature

**Monographic Series** Library of Congress, Government Reports Announcements & Index, 1982 Management in Nigeria, 1986 *Media Review Digest* C. Edward Wall, 1984 **CAD/CAM Abstracts**, 1992

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