

PROGRAMME	NATIONAL N DIPLOMA/CERTIFICATE IN ELECTRICAL ENGINEERING
SUBJECT NAME	INDUSTRIAL ELECTRONICS N3
SUBJECT CODE	8080613
ASSESSMENT	DEFERRED NATIONAL TEST MEMORANDUM
TRIMESTER	2ND TRIMESTER
FT/PT	FULL TIME AND PART TIME
DATE WRITTEN	18 JUNE 2021
SESSION	13H00-14H30

NUMBER OF PAGES	6
TOTAL MARKS	50
DURATION	1.5 HOURS
PASS MARK	40%
WEIGHTING	30% TOWARDS TERM MARK

REQUIREMENTS:

Addendum:

Learner Requirements: Stationery and Answer Book

Equipment Requirements: None

This paper consists of:

1.	QUESTION 1	10 MARKS	20 Minutes
2.	QUESTION 2	12 MARKS	22 Minutes
3.	QUESTION 3	14 MARKS	24 minutes
4.	QUESTION 4	14 MARKS	24 Minutes

Please answer **ALL** questions.

INSTRUCTIONS AND INFORMATION TO CANDIDATES:

1. Read all questions carefully before answering.
2. Number the answers according to the numbering system used in this question paper.
3. Answer questions in full sentences where required to do so.
4. **Calculations:** Show **ALL** steps when answering.
5. Rule off after each question.
6. Write neatly and legibly.

PLEASE READ THE ASSESSMENT RULES AND REGULATIONS THAT FOLLOW

Learners are warned that contravening any of the assessment rules or disobeying the instructions of an invigilator could result in the assessment being declared invalid. Disciplinary measures will be taken which may result in the learners' expulsion from Damelin, Management and Leadership Academy or Central Technical College.

Memorandum Of Electronics N3

Wai-Kai Chen



Memorandum Of Electronics N3:

Electronic Navigation Systems Laurie Tetley, David Calcutt, 2007-06-07 Maritime navigation has rapidly developed since the publication of the last edition of the title with methods of global position fixing for shipping becoming standardized. As in the previous two editions, this edition will provide a sound basis for the understanding of modern navigation systems and brings the student or professional up to date with the latest developments in technology and the growing standardization of maritime navigation techniques. Developed with close scrutiny from the US Merchant Marine Academy and the major maritime navigation centres in the UK, out-dated techniques have been replaced by an expanded section on the now standard Navstar GPS systems and the Integrated Nav. In addition, a new chapter on the application of electronic charts will also be included, as well as problems at the end of each chapter with worked solutions.

Administrative Notes, 1991

The electronic patient record Great Britain: Parliament: House of Commons: Health Committee, 2007-09-13. In England, implementing Electronic patient record (EPR) systems is one of the main aims of the 10 year National Programme for Information Technology (NPfIT). The main plank of the NPfIT programme is the NHS Care Records Service (NCRS) which will create two separate EPR systems: a national Summary Care Record (SCR) containing basic information and local Detailed Care Records (DCRs) containing more comprehensive clinical information. NCRS will also include a Secondary Uses Service (SUS) which will provide access to aggregated data for management research and other secondary purposes. On the SCR, this report finds a lack of clarity about what information will be contained, consent arrangements for creating and adding information have not been well communicated to patients or clinicians, important components have not yet been completed, maintaining security is a serious challenge. The DCR systems are to replace local IT systems across the NHS, but the report points to delays in trials and implementation, difficulty in establishing either the level of information sharing that will be possible or how sophisticated local IT applications will be. There has also been a lack of local involvement in delivering the project, with hospitals often left out of negotiations between Connecting for Health, the body delivering NPfIT, and suppliers, leading to a lack of enthusiasm for deploying the systems. The Committee recommends Connecting for Health focuses on setting and ensuring compliance with technical and clinical standards for NHS IT systems, allowing local users the final say over which system is procured and how it is implemented. The report points to some notable successes: too, agreement on a universal coding language for the NHS and a single unique patient identifier, the NHS number, and the potential for the SUS and health research is significant.

Electronic Aids to Navigation Laurence Tetley, D. M. Calcutt, 1991. Attempts to provide a basis for the understanding of modern navigation systems and to bring the reader up to date with the latest developments in technology.

NASA Technical Memorandum, 1991

Human Factors Engineering Bibliographic Series, 1966

The Circuits and Filters Handbook (Five Volume Slipcase Set) Wai-Kai Chen, 2018-12-14. Standard setting, groundbreaking, authoritative, comprehensive. These often overused words perfectly describe *The Circuits and Filters Handbook*, Third Edition.

This standard setting resource has documented the momentous changes that have occurred in the field of electrical engineering providing the most comprehensive coverage available More than 150 contributing experts offer in depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first and most likely the only tool you select to help you with problem solving In its third edition this groundbreaking bestseller surveys accomplishments in the field providing researchers and designers with the comprehensive detail they need to optimize research and design All five volumes include valuable information on the emerging fields of circuits and filters both analog and digital Coverage includes key mathematical formulas concepts definitions and derivatives that must be mastered to perform cutting edge research and design The handbook avoids extensively detailed theory and instead concentrates on professional applications with numerous examples provided throughout The set includes more than 2500 illustrations and hundreds of references Available as a comprehensive five volume set each of the subject specific volumes can also be purchased separately

Journal of Electronic Engineering ,1989 Electronic Constitution: Social, Cultural, and Political Implications Amoretti, Francesco,2009-03-31 Provides analysis of the relationship between digital information technologies and politics relating these issues to the historical system transformation *Advances in Electronics and Electron Physics* ,1993-04-27 *Advances in Electronics and Electron Physics* *Proceedings* ,1979 *The Circuits and Filters Handbook* Wai-Kai Chen,2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer Computer Aided Design and Design Automation Wai-Kai Chen,2018-03-12 This volume of The Circuits and Filters Handbook Third Edition focuses on computer aided design and design automation In the first part of the book international contributors address topics such as the modeling of circuit performances symbolic analysis methods numerical analysis methods design by optimization statistical design optimization and physical design automation In the second half of the text they turn their attention to RF CAD high performance simulation formal verification RTK behavioral synthesis system level design an Internet based micro electronic design automation framework performance modeling and embedded computing systems design

Technical Reports Awareness Circular : TRAC. ,1987-11 **NIST Serial Holdings, 1990** ,1990 **U.S. Government Research & Development Reports** ,1970 *Telecommunications Abstracts* ,1990

Electronic Design ,1959 **Fuzzy Relational Calculus: Theory, Applications And Software (With Cd-rom)** Yordan Kostadinov Kyosev,Ketty Georgieva Peeva,2005-01-06 This book examines fuzzy relational calculus theory with applications in various engineering subjects The scope of the text covers unified and exact methods with algorithms for direct and inverse problem resolution in fuzzy relational calculus Extensive engineering applications of fuzzy relation compositions and fuzzy linear systems linear relational and intuitionistic are discussed Some examples of such applications include

solutions of equivalence reduction and minimization problems in fuzzy machines pattern recognition in fuzzy languages optimization and inference engines in textile and chemical engineering etc A comprehensive overview of the authors original work in fuzzy relational calculus is also provided in each chapter The attached CD Rom contains a toolbox with many functions for fuzzy calculations together with an original algorithm for inverse problem resolution in MATLAB This book is also suitable for use as a textbook in related courses at advanced undergraduate and graduate levels **History of the Office of the Secretary of Defense** ,1984

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