Marker Code



South Pacific Form Seven Certificate PHYSICS 2006

QUESTION and ANSWER BOOKLET

Time allowed: Three hours

INSTRUCTIONS

Write your Student Personal Identification Number (SPIN) on the top right hand corner of this page and on the fold-out flap on the last page.

Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet. If you need more spaces for answers, ask the Supervisor for extra paper. Write your SPIN on all extra sheets used and clearly number the questions. Attach the extra sheets at the appropriate places in this booklet.

The questions are organised under the headings below, with allocations of marks and suggested times indicated. The total marks assigned to the questions is 152. In addition to this, four marks will be awarded for the correct use of significant figures and a further four marks will be awarded for the correct use of units of measurement.

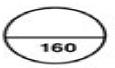
| | | Marks | Time |
|-------------------------|----------------------------------|--|------------|
| Questions One and Two | Waves | 29 marks | 34 minutes |
| Questions Three to Five | Mechanics | 52 marks | 62 minutes |
| Questions Six to Eight | Electricity and Electromagnetism | 47 marks | 56 minutes |
| Questions Nine and Ten | Atomic and Nuclear Physics | 24 marks | 28 minutes |
| | | | |
| | #3 | 152 marks + 8 marks | |
| | | The second secon | |

Some useful formulae are given on Sheet 109/2 provided.

Check that this booklet contains pages 2-24 in the correct order and that none of these pages is blank. Pages 25 - 26 are blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL MARKS



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forecasts are welcome as well Novel studies and latest model developments having a research to operation R2O transition possibility will be considered for publication The ultimate goal is to exchange research ideas advances and understanding across the global TC communities We welcome Original Research and Review Articles from development observational numerical modeling and forecasting perspectives on TCs Articles can include but are not limited to the following topics Model development TC vortex initialization algorithm High resolution physics for TC Air sea wave interactions Model tracking and intensity verification Data assimilation methods Observational data impacts Model evaluation tools Model evaluation comparison products for research and forecasts and Novel studies based on new findings and methodology

Druggists Circular ,1912 Intelligent Systems'2014 P. Angelov, K.T. Atanassov, L. Doukovska, M. Hadjiski, V. Jotsov, J. Kacprzyk, N. Kasabov, S. Sotirov, E. Szmidt, S. Zadrożny, 2014-09-23 This two volume set of books constitutes the proceedings of the 2014 7th IEEE International Conference Intelligent Systems IS or IEEE IS 2014 for short held on September 24 26 2014 in Warsaw Poland Moreover it contains some selected papers from the collocated IWIFSGN 2014 Thirteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets The conference was organized by the Systems Research Institute Polish Academy of Sciences Department IV of Engineering Sciences Polish Academy of Sciences and Industrial Institute of Automation and Measurements PIAP The papers included in the two proceedings volumes have been subject to a thorough review process by three highly qualified peer reviewers Comments and suggestions from them have considerable helped improve the quality of the papers but also the division of the volumes into parts and assignment of the Monthly Weather Review ,1984 papers to the best suited parts Pacific Magazine ,1991 **Resources in Education** .1998 Collected Reprints Southwest Fisheries Center (U.S.),1993 Bookseller, Newsdealer and Stationer ,1897 Physics Briefs ,1987 History of the Coastal Engineering Research Center, 1963-1983 Jamie W. Moore, 1991

Nuclear Science Abstracts ,1974 Analyse Et Caractérisation Des Couplages Substrat Et de la Connectique Dans Les Circuits 3D Fengyuan Sun,2016 The proposal of doubling the number of transistors on an IC chip with minimum costs and subtle innovations every 24 months by Gordon Moore in 1965 the so called called Moore s law has been the most powerful driver for the emphasis of the microelectronics industry in the past 50 years This law enhances lithography scaling and integration in 2D of all functions on a single chip increasingly through system on chip SOC On the other hand the integration of all these functions can be achieved through 3D integrations Generally speaking 3D integration consists of 3D IC packaging 3D IC integration and 3D Si integration They are different and mostly the TSV through silicon via separates 3D IC packaging from 3D IC Si integrations since the latter two uses TSVs but 3D IC packaging does not TSV with a new concept that every chip or interposer could have two surfaces with circuits is the heart of 3D IC Si integrations Continued technology scaling together with the integration of disparate technologies in a single chip means that device performance continues to

outstrip interconnect and packaging capabilities and hence there exist many difficult engineering challenges most notably in power management noise isolation and intra and inter chip communication 3D Si integration is the right way to go and compete with Moore s law more than Moore versus more Moore However it is still a long way to go In this book Fengyuan SUN proposes new substrate network extraction techniques Using this latter the substrate coupling and loss in IC s can be analyzed He implements some Green TLM Transmission Line Matrix algorithms in MATLAB It permits to extract impedances between any number of embedded contacts or and TSVS He does investigate models of high aspect ratio TSV on both analytical and numerical methods electromagnetic simulations This model enables to extract substrate and TSV impedance S parameters and parasitic elements considering the variable resistivity of the substrate It is full compatible with SPICE like solvers and should allow an investigation in depth of TSV impact on circuit performance Report of the ... Meeting of the British Association for the Advancement of Science ,1874

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