B.Tech., I & II Semester

Examination, December 2023

Grading System (GS)

Mathematics-I

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

किन्हीं पाँच प्रश्नों को हल कीजिए।

ii) All questions carry equal marks.

सभी प्रश्नों के समान अंक हैं।

iii) In case of any doubt or dispute the English version question should be treated as final.

किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. a) State Lagrange's theorem hence verify for $f(x) = x^2 + 2x$ defined in the interval $[-2, 0]$.

   लैग्रेंज की प्रमेय बताइए इसलिए अंतराल $[-2, 0]$ में परिभाषित $f(x) = x^2 + 2x$ के लिए सत्यापित करें।

   b) Find the first six terms of the expansions of the function $e^x \cos y$ in a Taylor series in the neighbourhood of the point $(0, 0)$.

   बिंदु $(0, 0)$ के पड़ोस में एक टेलर श्रृंखला में फलन $e^x \cos y$ के विस्तार के पहले छह पद खोजें।

2. a) Estimate the extreme values of the function $x^3 + y^3 - 63(x + y) + 12xy$.

   फलन $x^3 + y^3 - 63(x + y) + 12xy$ के चरम मूल्यों का अनुमान लगाइए।

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discusses the role of physiological and metabolic processes for plant growth and development and explains the symptoms of mineral deficiency in crops and their management Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures **Detecting and Mitigating Robotic Cyber Security Risks** Kumar, Raghavendra,Pattnaik, Prasant Kumar,Pandey, Priyanka,2017-03-20 Risk detection and cyber security play a vital role in the use and success of contemporary computing By utilizing the latest technological advances more effective prevention techniques can be developed to protect against cyber threats Detecting and Mitigating Robotic Cyber Security Risks is an essential reference publication for the latest research on new methodologies and applications in the areas of robotic and digital security Featuring extensive coverage on a broad range of topics such as authentication techniques cloud security and mobile robotics this book is ideally designed for students researchers scientists and engineers seeking current research on methods models and implementations of optimized security in digital contexts Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning Rani, Geeta,Tiwari, Pradeep Kumar,2020-10-16 By applying data analytics techniques and machine learning algorithms to predict disease medical practitioners can more accurately diagnose and treat patients However researchers face problems in identifying suitable algorithms for pre processing transformations and the integration of clinical data in a single module as well as seeking different ways to build and evaluate models The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as MRIs ECGs EEGs etc Highlighting a wide range of topics including clinical decision support systems biomedical image analysis and prediction models this book is ideally designed for clinicians physicians programmers computer engineers IT specialists data analysts hospital administrators researchers academicians and graduate and post graduate students *Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence* Trivedi, Shrawan Kumar,Dey, Shubhamoy,Kumar, Anil,Panda, Tapan Kumar,2017-02-14 The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing By implementing effective data driven techniques this allows for advance reporting tools to cater to company specific issues and challenges The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision making and risk management results Highlighting innovative studies on data warehousing business activity monitoring and text mining this publication is an ideal reference source for research scholars management faculty and practitioners **Numerical Methods and Statistical Techniques Using 'C'** Manish Goyal,2009 Artificial Intelligence and Computer Vision for Ecological Informatics Siddharth Singh Chouhan,Uday Pratap Singh,Akash Saxena,Akhilesh

Tiwari,Sanjeev Jain,2025-08-27 Ecological informatics more commonly known as Ecoinformatics is the study of environmental sciences and ecological information It is an emerging interdisciplinary framework for the management analysis and synthesis of ecological data with the help of advanced computational intelligence algorithms Management in this context is data acquisition preprocessing and sharing the data Analysis and synthesis are the process of extracting useful information and forecasting with the help of intelligent algorithms The aim of this book is to encapsulate concepts and theories of artificial intelligence and computer vision algorithms used for the evaluation of various ecological informatics applications It focuses on soft computing machine learning deep learning artificial intelligence bio inspired algorithms data analysis tools data visualization tools and computer vision algorithms used in ecological informatics The book covers remote sensing applications water bodies evaluation agriculture mapping aquatic mapping forest management and terrestrial ecosystems The book will be useful to students researchers scientists and field experts in directing their work towards this domain to deliver and design models and prototypes for the benefit of society and the environment   Solution Manual to Engineering Mathematics N. P. Bali,Dr. Manish Goyal,C. P. Gandhi,2010   *Mathematics in Computational Science and Engineering* Ramakant Bhardwaj,Jyoti Mishra,Satyendra Narayan,Gopalakrishnan Suseendran,2022-06-01 MATHEMATICS IN COMPUTATIONAL SCIENCE AND ENGINEERING This groundbreaking new volume written by industry experts is a must have for engineers scientists and students across all engineering disciplines working in mathematics and computational science who want to stay abreast with the most current and provocative new trends in the industry Applied science and engineering is the application of fundamental concepts and knowledge to design build and maintain a product or a process which provides a solution to a problem and fulfills a need This book contains advanced topics in computational techniques across all the major engineering disciplines for undergraduate postgraduate doctoral and postdoctoral students This will also be found useful for professionals in an industrial setting It covers the most recent trends and issues in computational techniques and methodologies for applied sciences and engineering production planning and manufacturing systems More importantly it explores the application of computational techniques and simulations through mathematics in the field of engineering and the sciences Whether for the veteran engineer scientist student or other industry professional this volume is a must have for any library Useful across all engineering disciplines it is a multifactional tool that can be put to use immediately in practical applications This groundbreaking new volume Includes detailed theory with illustrations Uses an algorithmic approach for a unique learning experience Presents a brief summary consisting of concepts and formulae Is pedagogically designed to make learning highly effective and productive Is comprised of peer reviewed articles written by leading scholars researchers and professors AUDIENCE Engineers scientists students researchers and other professionals working in the field of computational science and mathematics across multiple disciplines   *Proceedings of Third International Conference on Computational Electronics for Wireless Communications* Sanyog Rawat,Arvind Kumar,Ashish

Raman,Sandeep Kumar,Parul Pathak,2024-12-01 This book includes high quality papers presented at the Third International Conference on Computational Electronics for Wireless Communications ICCWC 2023 held at Dr B R Ambedkar National Institute of Technology Jalandhar India during December 22 23 2023 The book presents original research work of academics and industry professionals to exchange their knowledge of the state of the art research and development in computational electronics with an emphasis on wireless communications The topics covered in the book are radio frequency and microwave signal processing microelectronics and wireless networks   Applications of Computer Vision and Drone Technology in Agriculture 4.0 Siddharth Singh Chouhan,Uday Pratap Singh,Sanjeev Jain,2024-03-18 This edited book focus on two most emerging areas and covers the different aspects of computer vision and drone technology in the field of agriculture It comprises various applications including segmentation classification of plant diseases monitoring of crops grade quality estimation of fruits flowers vegetables crops surveillance soil deficiency estimation crop plant growth estimation canopy measurement water stress management vegetation indices calculation weed detection and spraying among other It has 17 chapters contributed by experts in the field of computer vision drone technology deep learning machine learning artificial intelligence image processing agriculturist and plant pathologists The recent development of high end computing devices and the adaptation of unmanned aerial vehicles has provided a mechanism to automate traditional agriculture practices The on field or aerial images captured using cameras are processed with the help of intelligent algorithms and an assessment is drawn for further recommendations This practice is efficient in provisioning an accurate timely and economical decision making system to overcome the problems of agricultural field experts and farmers This process is advantageous in increasing the quality and quantity of crop yields This book serves as an excellent guide to students researchers scientists and field experts in directing their work toward this domain and developing designing models Further this book is useful for pathologists biotechnologists seed production specialists breeders market managers and other stakeholders associated with underlying technology or market development from the public and private sectors   **Cyber Security Analysis Using Policies & Procedures** Dr. Ashad ullah Qureshi,2022-06-01 The Internet provided us with unlimited options by enabling us with constant dynamic information that changes every single minute through sharing of information across the globe many organizations rely on information coming going out from their network Security of the information shared globally Networks give birth to the need for cyber security Cyber security means the security of the information residing in your cyberspace from unwanted unauthorized persons Through different different policies procedures we can prevent our information from both local globally active invaders Hackers   Utilizing AI and Machine Learning in Financial Analysis Darwish, Dina,Kumar, Sanjeev,2025-01-21 Machine learning models can imitate the cognitive process by assimilating knowledge from data and employing it to interpret and analyze information Machine learning methods facilitate the comprehension of vast amounts of data and reveal significant patterns incorporated within it This data is utilized to optimize financial business operations

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