

Gk Dubey Solutions Of Electric Drive

NASA Technical Paper
NASA Technical Paper
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Applied Linear Algebra, Probability and Statistics
Computation and Modeling for Fractional Order Systems
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Advances in Mathematical Modelling, Applied Analysis and Computation
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a unique book on the present status of solvents and solutions with important problems related to their structure and properties the literature on the properties of solvents and solutions used in academic research and in a wide range of industries has grown enormously during the last four decades and is scattered in different specialized journals solvents and solutions is a groundbreaking text that offers a systematic compilation of important problems related to selected properties of solvents and solutions based on the literature published so far the author places emphasis on explaining the basic concepts involved in understanding the properties and behavior of various solvents and solutions of electrolytes and nonelectrolytes in a consistent manner after a description of the general characteristics of structure of solvents and solutions and the solubility of electrolytes and nonelectrolytes under normal temperature and pressure conditions the book first deals with different aspects of the density and the refractive index of solvents and dilute as well as concentrated solutions and finally with the transport i e viscosity and electric conductivity and thermal properties of solvents and solutions solvents and solutions is the first text devoted to the description and discussion of their properties since the publication of a monograph on the physical properties of aqueous electrolyte solutions more than three decades ago the main features of this book are reflects developments in the investigation of solvents and solutions during the last three decades outlines basic concepts involved in understanding the properties and behavior of solvents and solutions describes and discusses different properties of ionic liquids as solvents and the behavior of their mixtures with other commonly used solvents contents of different chapters are not only self contained but the contents are practically independent of each other written as a practical guide for researchers who are looking for an uptodate overview of the physical and transport properties of solvents and solutions and as a reference source for workers in chemical industries and related fields and for graduate students of chemical engineering and physical chemistry

this book focuses on research in linear algebra statistics matrices graphs and their applications many chapters in the book feature new findings due to applications of matrix and graph methods the book also discusses rediscoveries of the subject by using new methods dedicated to prof calyampudi radhakrishna rao c r rao who has completed 100 years of legendary life and continues to inspire us all and prof arbind k lal who has sadly departed us too early it has contributions from collaborators students colleagues and admirers of professors rao and lal with many chapters on generalized inverses matrix analysis matrices and graphs applied probability and statistics and the history of ancient mathematics this book offers a diverse array of mathematical results techniques and applications the book promises to be especially rewarding for readers with an interest in the focus areas of applied linear algebra probability and statistics

computation and modeling for fractional order systems provides readers with problem solving techniques for obtaining exact and or approximate solutions of governing equations arising in fractional dynamical systems presented using various analytical semi analytical and numerical methods in this regard this book brings together contemporary and computationally efficient methods for investigating real world fractional order systems in one volume fractional calculus has gained increasing popularity and relevance over the last few decades due to its well established applications in various fields of science and engineering it deals with the differential and integral operators with non integral powers fractional differential equations are the pillar of various systems occurring in a wide range of science and engineering disciplines namely physics chemical engineering mathematical biology financial mathematics structural mechanics control theory circuit analysis and biomechanics among others the fractional derivative has also been used in various other physical problems such as frequency dependent damping behavior of structures motion of a plate in a newtonian fluid pid controller for the control of dynamical systems and many others the mathematical models in electromagnetics rheology viscoelasticity electrochemistry control theory brownian motion signal and image processing fluid dynamics financial mathematics and material science are well defined by fractional order differential equations generally these physical models are demonstrated either by ordinary or partial differential equations however modeling these problems by fractional differential equations on the other hand can make the physics of the systems more feasible and practical in some cases in order to know the behavior of these systems we need to study the solutions of the governing fractional models the exact solution of

fractional differential equations may not always be possible using known classical methods generally the physical models occurring in nature comprise complex phenomena and it is sometimes challenging to obtain the solution both analytical and numerical of nonlinear differential equations of fractional order various aspects of mathematical modeling that may include deterministic or uncertain viz fuzzy or interval or stochastic scenarios along with fractional order singular non singular kernels are important to understand the dynamical systems computation and modeling for fractional order systems covers various types of fractional order models in deterministic and non deterministic scenarios various analytical semi analytical numerical methods are applied for solving real life fractional order problems the comprehensive descriptions of different recently developed fractional singular non singular fractal fractional and discrete fractional operators along with computationally efficient methods are included for the reader to understand how these may be applied to real world systems and a wide variety of dynamical systems such as deterministic stochastic continuous and discrete are addressed by the authors of the book

this book constitutes revised and selected papers of the first international conference on computational sciences modelling computing and soft computing held in kozhikode kerala india in september 2020 the 15 full papers and 6 short papers presented were thoroughly reviewed and selected from the 150 submissions they are organized in the topical sections on computing soft computing general computing modelling

this book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation it includes selected papers of the first international conference on mathematical modelling applied analysis and computation icmmaac 2021 held at jecrc university jaipur india during august 5 7 2021 the book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories which can be used to analyze different kinds of mathematical models applications of mathematical methods in physics chemistry biology mechanical engineering civil

engineering computer science social science and finance are presented

this book delivers an outline to graduate undergraduate students and researchers as well as academicians who are working on lead toxicity with respect to remediation it covers sources of lead contamination and its impact on human health and on prospective remediation through multi disciplinary approaches with application of recent advanced biological technology lead is among the elements that have been most extensively used by man over time this has led to extensive pollution of surface soils on the local scale mainly associated with mining and smelting of the metal and addition of organic lead compounds to petrol release of lead to the atmosphere from various high temperature processes has led to surface contamination on the regional and even global scale in addition plants grown on lead rich soils incorporate lead and thus the concentration of lead in crop plants may be increased lead enters in the food chain through consumption of plant material a high concentration of lead has been found to be harmful to vegetation as the lead concentration increases it adversely affects several biological parameters and eventually renders the soil barren this edited book brings together a diverse group of researchers to address the challenges posed by global mass poisoning caused by lead contamination of soil and plants the book sheds light on this global environmental issue and proposes solutions to contamination through multi disciplinary approaches this book contains three sections the first section describes the different sources and distribution of lead in soil and plant ecosystems the second section explains the health risks linked to lead toxicity the third section addresses sustainable lead toxicity mitigation strategies and the potential applications of recent biological technology in providing solutions this book is a valuable resource to students academics researchers and environmental professionals doing fieldwork on lead contamination throughout the world

nonlinear differential equations are ubiquitous in computational science and engineering modeling fluid dynamics finance and quantum mechanics among other areas nowadays solving challenging problems in an industrial setting requires a continuous interplay between the theory of such systems and the development and use of sophisticated computational methods that can guide and support the theoretical findings via practical computer simulations owing to the impressive development in computer technology and the introduction of fast

numerical methods with reduced algorithmic and memory complexity rigorous solutions in many applications have become possible this book collects research papers from leading world experts in the field highlighting ongoing trends progress and open problems in this critically important area of mathematics

publishes original research papers from all areas of inorganic chemistry molecular chemistry solid state chemistry and complex chemistry

advances in healthcare technologies have offered real time guidance and technical assistance for diagnosis monitoring operation and interventions the development of artificial intelligence machine learning internet of things technology and smart computing techniques are crucial in today s healthcare environment as they provide frictionless and transparent financial transactions and improve the overall healthcare experience this in turn has far reaching effects on economic psychological educational and organizational improvements in the way we work teach learn and provide care these advances must be studied further in order to ensure they are adapted and utilized appropriately the handbook of research on mathematical modeling for smart healthcare systems presents the latest research findings ideas innovations developments and applications in the field of modeling for healthcare systems furthermore it presents the application of innovative techniques to complex problems in the case of healthcare covering a range of topics such as artificial intelligence deep learning and personalized healthcare services this reference work is crucial for engineers healthcare professionals researchers academicians scholars practitioners instructors and students

nsa is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious inis database which began in 1970 nsa existed as a printed product volumes 1 33 initially created by doe s predecessor the u s atomic energy commission aec nsa includes citations to scientific and technical reports from the aec the u s energy research and development administration and its contractors plus other agencies and international organizations universities and industrial and research organizations references to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included abstracts and full text are provided if available

this book constitutes the refereed conference proceedings of the 6th international conference on applied analytics amla 2023 held in lübeck germany during november 9 10 2023 the 17 full papers and 2 short papers presented in this book were carefully reviewed and selected from 76 submissions the main conference amla 2023 is renowned for presenting cutting edge research on all aspects of machine learning as well as important application areas such as healthcare and medical imaging informatics biometrics forensics precision agriculture risk management robotics and satellite imaging

percutaneous penetration enhancers in a mini series format comprising five volumes represents the most comprehensive reference on enhancement methods both well established and recently introduced in the field of dermal transdermal drug delivery in detail the broad range of both chemical and physical methods used to enhance the skin delivery of drugs is described all aspects of drug delivery and measurement of penetration are covered and the latest findings are provided on skin structure and function mathematics in skin permeation and modern analytical techniques adapted to assess and measure penetration in offering a detailed description of the methods currently in use for penetration enhancement this book will be of value for researchers pharmaceutical scientists practitioners and also students

for years toxoplasmosis has been known as disease mostly affecting newborns since immunocompromised patients aids present a high risk of reactivation of chronic toxoplasmosis this parasitic disease has gained increasing interest besides presenting clinical and therapeutical concepts this volume provides current knowledge about genetics and immunology of *t gondii* and the interaction with its host since in vivo and in vitro models of toxoplasmosis exist and genetic manipulation has become possible this protozoan parasite has recently been accepted as a model for understanding the pathogenesis and persistence of other intracellular parasites the articles of the book compromise both reviewing current concepts and reporting on yet unpublished results of leading scientists in this field

phytoremediation technology for the removal of heavy metals and other contaminants from soil and water focuses on the exploitation of plants and their associated microbes as a tool to degrade detoxify stabilize toxic and hazardous contaminants and restore the

contaminated site the book introduces various phytoremediation technologies using an array of plants and their associated microbes for environmental cleanup and sustainable development the book mainly focuses on the remediation of toxic and hazardous environmental contaminants their phytoremediation mechanisms and strategies advances and challenges in the current scenario this book is intended to appeal to students researchers scientists and a wide range of professionals responsible for regulating monitoring and designing industrial waste facilities engineering consultants industrial waste managers and purchasing department managers government regulators and graduate students will also find this book invaluable provides natural and eco friendly solutions to deal with the problem of pollution details underlying mechanisms of phytoremediation of organic and inorganic contaminants with enzymatic roles describes numerous successful field studies on the application of phytoremediation for eco restoration of contaminated sites presents recent advances and challenges in phytoremediation research and applications for sustainable development provides authoritative contributions on the diverse aspects of phytoremediation by world leading experts

game theory has served as a standard text for game theory courses since the publication of the first edition in 1968 the fourth edition updates several recently developed subfields

this book is an excellent collection of various topics of mathematics which include numerical methods integral equations and differential equations the book is recommended to readers to refresh their understanding of applied mathematics with theory and applications it will be useful to students researchers and practitioners working in applied and computational mathematics

as the title of the book suggests the topics of this book are organized into two parts the first part points out the fuzzy differential equations and the second one is related to the fuzzy integral equations the book contains nine chapters that six chapters are about fuzzy differential equations and three of them are about fuzzy integral equations in each part the chapters authors are going to discuss the topics theoretically and numerically all researchers and students in the field of mathematical computer and also engineering sciences can benefit from the subjects of the book

the book gathers a collection of high quality peer reviewed research papers presented at the international conference on data and information systems icdis 2017 held at indira gandhi national tribal university india from november 3 to 4 2017 the book covers all aspects of computational sciences and information security in chapters written by leading researchers developers and practitioner from academia and industry it highlights the latest developments and technical solutions helping readers from the computer industry capitalize on key advances in next generation computer and communication technology

the book focuses to foster new and original research ideas and results in three broad areas computing analytics and networking with its prospective applications in the various interdisciplinary domains of engineering this is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems it also provides insights into the international conference on computing analytics and networking iccan 2017 which is a premier international open forum for scientists researchers and technocrats in academia as well as in industries from different parts of the world to present interact and exchange the state of art of concepts prototypes innovative research ideas in several diversified fields the book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge the book aims at postgraduate students and researchers working in the discipline of computer science engineering it will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies

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mathematical models are used to convert real life problems using mathematical concepts and language these models are governed by differential equations whose solutions make it easy to understand real life problems and can be applied to engineering and science disciplines this book presents numerical methods for solving various mathematical models this book offers real life applications includes

research problems on numerical treatment and shows how to develop the numerical methods for solving problems the book also covers theory and applications in engineering and science engineers mathematicians scientists and researchers working on real life mathematical problems will find this book useful

a fictional story on the experiences of a civil servant

the study of the theory of games was started in von neumann 1928 but the development of the theory of games was accelerated after the publication of the classical book theory of games and economic behavior by von neumann and morgenstern 1944 as an initial step the theory of games aims to put situations of conflict and cooperation into mathematical models in the second and final step the resulting models are analysed on the basis of equitable and mathematical reasonings the conflict and or cooperative situation in question is generally due to the interaction between two or more individuals players their interaction may lead up to several potential payoffs over which each player has his own preferences any player attempts to achieve his largest possible payoff but the other players may also exert their influence on the realization of some potential payoff as already mentioned the theory of games consists of two parts a modelling part and a solution part concerning the modelling part the mathematical models of conflict and cooperative situations are described the description of the models includes the rules the strategy space of any player potential payoffs to the players the preferences of each player over the set of all potential payoffs etc according to the rules it is either permitted or forbidden that the players communicate with one another in order to make binding agreements regarding their mutual actions

describing a new optimization algorithm the teaching learning based optimization tlbo in a clear and lucid style this book maximizes reader insights into how the tlbo algorithm can be used to solve continuous and discrete optimization problems involving single or multiple objectives as the algorithm operates on the principle of teaching and learning where teachers influence the quality of learners results the elitist version of tlbo algorithm etlbo is described along with applications of the tlbo algorithm in the fields of electrical engineering mechanical design thermal engineering manufacturing engineering civil engineering structural engineering computer engineering

electronics engineering physics and biotechnology the book offers a valuable resource for scientists engineers and practitioners involved in the development and usage of advanced optimization algorithms

covers the fundamental concepts and mathematical skills required to analyse reaction diffusion models for biological populations focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics virus and brain dynamics covers wide range of models using spatial and non spatial approaches covers single two and multispecies reaction diffusion models from ecology and models from bio chemistry uses mathematica for problem solving and matlab for pattern formations contains solved examples and problems in exercises

this book presents the latest findings in the areas of data management and smart computing big data management artificial intelligence and data analytics along with advances in network technologies the volume is a collection of peer reviewed research papers presented at seventh international conference on data management analytics and innovation icdmai 2023 held during 20 22 january 2023 in pune india it addresses state of the art topics and discusses challenges and solutions for future development gathering original unpublished contributions by scientists from around the globe the book is mainly intended for a professional audience of researchers and practitioners in academia and industry

this book describes various aspects of technical textiles and materials emerging technologies plant by products ultrafine fibers functional fibers and fabrics covering the entire spectrum of technical textiles it covers the fundamental aspects of emerging technology materials and processes it also discusses various futuristic potential nanofibrous material spun via needleless technology and their inherent properties utilized for creating functional applications in the field of technical textiles features covers the fundamentals of technical fibers and their processing technologies explores natural fibers from agro residue for high value technical textiles presents up to date summary of technical textiles and associated technology highlights research and development studies data translated into product oriented research and practical applications identifies the coloring ability of prevailing and new sources of pigments from bioresources the book is aimed at

researchers professionals and graduate students in textile and industrial engineering materials science and engineering including apparel engineering

this book comprises the select peer reviewed proceedings of the 4th international conference on information technology incite 2024 it aims to provide a comprehensive knowledge base highlighting state of the art research and development and best practices for intelligent solutions in the digital era it covers adaptive intelligence decision intelligence artificial intelligence deep learning machine learning data science and enabling technologies for iot blockchain and other futuristic technologies the content would serve as a rich knowledge repository on information communication technologies neural networks fuzzy systems natural language processing data mining warehousing big data analytics cloud computing social networks and intelligence decision making and modeling information systems it architectures and security related aspects this book provides a valuable resource for those in academia and industry

scientific motivation to publish this book comes from the increased interest in the study of toxoplasmosis showed all over the world though the toxoplasma gondii infection was first discovered in 1908 toxoplasmosis remains a today s research topic a realm of questions and dilemmas that interest both the veterinarians and the human doctors studies in the field are directed to the epidemiology of the disease the sources of infection epidemiological chains being underlined the important feature in the transmission of this parasite the ability to pass from one intermediate host to another intermediate host without passing through the final host felids an increased prevalence of toxoplasmosis in humans and animals as well as the difficulty of coproscopic diagnosis of toxoplasmosis in cats expensive serological examinations in both animals and humans lack of diagnostic methods accessible to veterinarians in slaughterhouses cultural and culinary differences of human patients which can influence the prevalence of the disease motivate the scientific and practical importance of the proposed book and reveal the importance of this topic for animal and human health so the proposed book will contain informations regarding the etiology and history of toxoplasma gondii infection and also the parasite s morphology and biology this work will contain a very detailed epidemiology of the toxoplasmosis from all over the world and for all species of animals this chapter will

include also personal findings of the authors about the toxoplasma gondii seroprevalence in domestic animals from romania in the last part of the book we will present the main methods for toxoplasma diagnosis at the end of the book we will synthesize the main routes for t gondii infection and the recommendations for reducing toxoplasmosis seroprevalence

a best selling chapter wise book on logical reasoning with objective type questions as per the latest syllabus for cat and other mba entrance exams increase your chances of selection by 16x in addition to the well structured content each chapter contains a series of practice tests for your self evaluation using expert researched content you will be able to pass your exam with stellar grades

comprehensive foodomics three volume set offers a definitive collection of over 150 articles that provide researchers with innovative answers to crucial questions relating to food quality safety and its vital and complex links to our health topics covered include transcriptomics proteomics metabolomics genomics green foodomics epigenetics and noncoding rna food safety food bioactivity and health food quality and traceability data treatment and systems biology logically structured into 10 focused sections each article is authored by world leading scientists who cover the whole breadth of omics and related technologies including the latest advances and applications by bringing all this information together in an easily navigable reference food scientists and nutritionists in both academia and industry will find it the perfect modern day compendium for frequent reference list of sections and section editors genomics olivia mcauliffe dept of food biosciences moorepark fermoy co cork ireland epigenetics noncoding rna juan cui department of computer science engineering university of nebraska lincoln lincoln ne transcriptomics robert henry queensland alliance for agriculture and food innovation the university of queensland st lucia australia proteomics jens brockmeyer institute of biochemistry and technical biochemistry university stuttgart germany metabolomics philippe schmitt kopplin research unit analytical biogeochemistry neuherberg germany omics data treatment system biology and foodomics carlos leon canseco visiting professor biomedical engineering universidad carlos iii de madrid green foodomics elena ibanez foodomics lab cial csic madrid spain food safety and foodomics djuro josic professor medicine research warren alpert medical school brown university providence ri usa sandra kraljevic pavelic university of rijeka department of biotechnology rijeka croatia food

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Understanding Android Groups: Efficiently Managing Applications and Data

Android Groups, while not a readily apparent feature like widgets or notifications, represent a powerful underlying mechanism crucial for organizing and managing applications, data, and permissions within the Android operating system. This article delves into the intricacies of Android Groups, exploring their functionality and demonstrating their importance in the Android ecosystem. We will examine how groups contribute to system stability, enhanced user experience, and streamlined resource management.

1. What are Android Groups?

At its core, an Android Group is a logical collection of entities, usually applications or system components, sharing common characteristics or functionalities. These characteristics could pertain to their purpose (e.g., productivity apps), security permissions (e.g., apps accessing location data), or even resource allocation (e.g., apps requiring high-bandwidth internet access). Unlike user-defined folders that organize app icons, Android Groups are primarily behind-the-scenes organizational tools managed by the system. This grouping isn't directly visible to the average user; its effects are felt through the system's efficient resource allocation and security measures.

2. Types of Android Groups and Their Functions:

Several types of Android Groups operate concurrently, each playing a distinct role:

- Permission Groups:** These are arguably the most crucial. The Android system grants permissions to applications in groups, not individually. For instance, the "Location" permission group encompasses fine location, coarse location, and background location access. If an app requests location permission, the user grants access to the entire group, not separate permissions within the group. This simplifies the permission granting process for users and enhances security.
- Application Groups (or Shared User IDs):** These allow multiple applications to share the same user ID, effectively treating them as a single entity. This is primarily used for sharing data and resources securely between applications that are inherently related. For instance, multiple components of a single larger application might reside in separate APKs (Android Package Kits) but share the same user ID for streamlined data access and communication.
- System Groups:** Android utilizes internal groups to manage system processes and services. These groups are not directly accessible or modifiable by users or applications. They ensure system stability and facilitate communication between core system components. These groups contribute significantly to how the operating system handles tasks, resource allocation, and inter-process communication (IPC).

3. Impact on App Permissions and Security:

Android Groups play a pivotal role in enhancing security and managing application permissions. By grouping permissions, the system avoids a fragmented and cumbersome permission management system. This allows for more fine-grained control over app access to sensitive data. If one app in a permission group misbehaves and its access needs to be revoked, the system can swiftly revoke access for all apps within that group, enhancing security.

4. Resource Management and Optimization:

While less directly visible to the user, Android Groups also influence how the system manages resources like memory, CPU, and network bandwidth. By grouping applications with similar resource needs, the system can prioritize and allocate resources more efficiently. This contributes to smoother system performance and prevents resource contention between unrelated applications.

5. Practical Scenarios and Examples:

Consider a scenario where you have multiple fitness tracking apps. Each app might require access to location services, sensors, and storage. These permissions are grouped together. If you grant permission to one fitness app, it applies to other apps within the same permission group, preventing repetitive permission requests. Similarly, components of a single application might use shared User IDs for secure data sharing.

Summary:

Android Groups are a fundamental aspect of the Android operating system, contributing significantly to its security, stability, and efficiency. While largely operating behind the scenes, these groupings organize applications, manage permissions, and facilitate resource allocation. Understanding their function helps in appreciating the complexity and sophistication of the Android framework, leading to a more informed user experience and a better understanding of how applications interact within the system.

FAQs:

1. Can I see or manage Android Groups directly? No. Android Groups are primarily managed internally by the operating system. You cannot directly view or modify them through standard system settings. 2. How do Android Groups affect battery life? By efficiently managing resource allocation, groups can contribute to improved battery life. Grouping apps with similar resource requirements allows for better optimization and prevents unnecessary power consumption. 3. What happens if an app in a permission group is malicious? If an app in a permission group misbehaves, revoking permission for that group removes access for all apps in the group, effectively mitigating the risk. 4. Do Android Groups impact app performance? Generally, Android Groups improve performance through efficient resource management. However, poorly designed or conflicting groups could potentially lead to minor performance issues. 5. Are Android Groups the same as app folders? No. App folders are user-created organizational tools for app icons on the home screen. Android Groups are system-level logical groupings invisible to the user, impacting app permissions, resource management, and security.

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