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about the book the book provides an integrated treatment of continuous time and discrete time systems for two courses at postgraduate level or one course

at undergraduate and one course at postgraduate level it covers mainly two areas of modern control theory namely system theory and multivariable and optimal control the coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers the stress is on interdisciplinary nature of the subject practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations

there are many ways to apply knowledge to achieve a successful career different people have used different ideologies get to the top what are the characteristics that will help you achieve success this book caters not only to students stepping into the engineering fields or the corporate world for the first time but also to those who are stuck in the wrong profession the book highlights the importance of knowing your field of education the importance of personality finding the right opportunity in different fields of work choosing the right first employer and other important decisions related to your career this book is an essential read for anyone who wants to enter the field of engineering the volume includes a good number of illustrations with detailed notes

a retired railway officer recalls events in his life and his career spanning the period before the country gained freedom from british rule through turbulent times in eastern india wars with a neighbouring country imposition of the emergency with glimpses of working conditions in a public sector corporation and life in a west african country the events are retold engagingly

in the hustle to make career that is regulated by society most give up on their dreams and passions but for k kohli writing was a compulsion not a choice that s how passion manifests it s like the mountain course of the river that forces its way through the roughest of the terrains born in delhi graduated from st stephens college university of delhi he is an inspirational speaker who motivates young people to pursue careers in civil services and community development he continues to be an exemplary figure demonstrating how individuals can make a profound impact on their communities through dedication hard work and a deep sense of social responsibility the civil services have risen in social reckoning as a career due to its significant role in bringing government s policies to the people and making development possible on ground like a rainmaker qualifying for the civil services is also considered as a mark of talent and success given that it requires passing through a multi stage rigorous system of examination and interview apart from job security and satisfaction the services provide ample opportunities and challenges to prove one s mettle and also to contribute and give back to society in india the civil service is defined as appointive positions by the government in connection with the affairs of the union and includes a civilian in a defence service except positions in the indian armed forces this exam is not for people who believe in shortcuts who are impatient and casual it seeks such people who believe in rigorous study only the candidates who are thoroughly organised disciplined and determined can taste it s success ultimately the country needs officers equipped with these qualities if those candidates who have a profusion of the aforesaid qualities get the right guidance then they can definitely crack the ias exam this book has been prepared for such deserving and appropriate candidates we are not just hopeful but have complete faith that his book will definitely work as a useful guidance in making the honest and strong willed candidates as ias move forward with heart within and god overhead connect at kohlifoundationindia gmail

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circulating tumor cells from biotech innovation to clinical utility part b volume 392 in the international review of cell and molecular biology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including circulating tumor cells in lung cancer integrating stemness and heterogeneity to improve clinical utility multi omic features and clustering phenotypes of circulating tumor cells associated with metastasis and clinical outcomes ctcs in crc updates proteomics and post translational modification analysis in ctcs latest advances of ctc studies in prostate cancer and epigenetics and ctcs new biomarkers and impact on tumor biology provides the latest information on cancer research offers outstanding and original reviews on a range of cancer research topics serves as an indispensable reference for researchers and students alike

this work is concerned with theoretical developments in the area of mathematical programming development of new algorithms and software and their applications in science and industry it aims to expose recent mathematical developments to a larger audience in science and industry

this book presents a new understanding on how control systems truly operate and explains how to recognize simulate and improve control systems in all fields of activity it also reveals the pervasive ubiquitous and indispensable role of control processes in our life and the need to develop a control oriented thinking based on uncomplicated but effective models derived from systems thinking that is a true discipline of control over the book s thirteen chapters piero mella shows that there are simple control systems rather than complex ones that can easily help us to manage complexity without drawing upon more sophisticated control systems it begins by reviewing the basic language of systems thinking and the models it allows users to create it then introduces the control process presenting the theoretical structure of three simple control systems we all can observe in order to gain fundamental knowledge from them about the basic structure of a control system then it presents the anatomy of the simplest magic ring and the general theoretical model of any control system this is followed by an introduction to a general typology of control systems and a broader view of control systems by investigating multi lever control systems and multi objective systems the book undertakes the concepts through various environments increasingly broader in scope to suggest to readers how to recognize therein control systems manifestations in everyday life and in natural phenomena updated for the 2nd edition new chapters explore control systems regulating the biological environment and the organizations with an in depth study of the control of quality productivity production stocks and costs finally it concludes by dealing with the learning process problem solving and designing the logical structure of control systems

microfluidic devices for biomedical applications second edition provides updated coverage on the fundamentals of microfluidics while also exploring a wide range of medical applications chapters review materials and methods microfluidic actuation mechanisms recent research on droplet microfluidics applications in drug discovery and controlled delivery including micro needles consider applications of microfluidic devices in cellular analysis and manipulation tissue engineering and their role in developing tissue scaffolds and cover the applications of microfluidic devices in diagnostic sensing including genetic analysis low cost bioassays viral detection and radio chemical synthesis this book is an essential reference for medical device manufacturers

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doctoral thesis dissertation from the year 2012 in the subject engineering general grade a anna university language english abstract the analysis and synthesis of higher order models are complicated and are not desirable on economic and computational considerations to circumvent the difficulties lower order model formulation techniques are utilized to find a lower dimensional approximant for the original higher order model the obtained lower order model preserves the characteristics of the original higher order model firstly the linear time invariant single input single output continuous systems are considered to investigate the efficiency of the proposed lower order model formulation approach for this the given linear time invariant higher order system represented in the form of transfer function is adopted to get adjunct lower order transfer function and its coefficients are tuned suitably with the help of modified particle swarm optimization along with transient and steady state gain adjustments the lower order model is formed on an error based criterion moreover the formulated second order models are used to design the continuous pid controllers secondly the single input single output linear time invariant discrete systems are dealt for model order formulation with the help of proposed approach discrete pid controllers are designed by employing the proposed formulated lower order model and it retains the desired performance specifications the lower order models minimize the computational complexities for the process of output stabilization compared with higher order models the proposed approach is direct and simple in approach for linear time invariant discrete systems thirdly certain procedures are proposed for designing the state feedback controller and state space observer of linear time invariant continuous and discrete systems further the lower order model formulation approach for single input single output systems is extended to multi input multi output linear time invariant continuous and discrete systems the analysis of the discrete system is carried out directly without applying any linear or bilinear transformations which reduces computational complexities this approach guarantees an absolutely stable lower order model if the considered higher order system is stable in nature the proposed methodology extracts a second order model which has a better approximation compared to models obtained due to other methods algorithms are also presented for all the contributions provided in the thesis with illustrations and results

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