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The book strictly complies with the new syllabus of Gujrat Technological University, Ahmedabad, for B.E. First year of all braches of Engineering. The subject matter is presented in a graded stepwise, easytofollow style. Each chapter includes MulipleChoice Questions,Review Questions and Exercises for easy recapitulation. Engineering Physics has been specifically designed and written to meet the requirements of the engineering students of GTU. All the topics and sub-topics are neatly arranged for the students. A number of assignment problems, along with questions and answers, have also been provided. MCQs for the bridge course have been designed in such a way that the students can recollect every concept that they have read and apply easily during the examination. KEY FEATURES • Detailed discussion of every topic from elementary to comprehensive level with several worked-out examples • A section on practicals • Solved Question Papers- Dec 2013 and June 2014 • As per the syllabus for 2013-14 This book is an extended version of lectures given by the ?rst author in 1995–1996 at the Department of Mechanics and Mathematics of Moscow State University. We believe that a major part of the book can be regarded as an additional material to the standard course of Hamiltonian mechanics. In comparison with the original Russian 1 version we have included new material, simpli?ed some proofs and corrected m- prints. Hamiltonian equations ?rst appeared in connection with problems of geometric optics and celestial mechanics. Later it became clear that these equations describe a large classof systemsin classical mechanics,physics,chemistry,and otherdomains. Hamiltonian systems and their discrete analogs play a basic role in such problems as rigid body dynamics, geodesics on Riemann surfaces, quasi-classic approximation in quantum mechanics, cosmological models, dynamics of particles in an accel- ator, billiards and other systems with elastic re?ections, many in?nite-dimensional models in mathematical physics, etc. In this book we study Hamiltonian systems assuming that they depend on some parameter (usually?), where for?= 0 the dynamics is in a sense simple (as a rule, integrable). Frequently such a parameter appears naturally. For example, in celestial mechanics it is accepted to take? equal to the ratio: the mass of Jupiter over the mass of the Sun. In other cases it is possible to introduce the small parameter ar- ?cially. Masterly’s series LAB MANUAL OF ANALYTICAL CHEMISTRY For B.Pharm and Pharm.D First Year As Per GTU & PCI SYLLABUS Ordinary differential equations (ODEs) arise in many contexts of mathematics and science (social as well as natural). Mathematical descriptions of change use differentials and derivatives. Various differentials, derivatives, and functions become related to each other via equations, and thus a differential equation is a result that describes dynamically changing phenomena, evolution, and variation. Often, quantities are defined as the rate of change of other quantities (for example, derivatives of displacement with respect to time), or gradients of quantities, which is how they enter differential equations. Ordinary differential equations are equations to be solved in which the

unknown element is a function, rather than a number, and in which the known information relates that function to its derivatives. Few such equations admit an explicit answer, but there is a wealth of qualitative information describing the solutions and their dependence on the defining equation. Systems of differential equations form the basis of mathematical models in a wide range of fields - from engineering and physical sciences to finance and biological sciences. Differential equations are relations between unknown functions and their derivatives. Computing numerical solutions to differential equations is one of the most important tasks in technical computing, and one of the strengths of MATLAB. The book explains the origins of various types of differential equations. The scope of the book is limited to linear differential equations of the first order, linear differential equation of higher order, partial differential equations and special methods of solution of differential equations of second order, keeping in view the requirement of students. Data and File Structure has been specifically designed to meet the requirements of the engineering students of GTU. This is a core subject in the curriculum of all Computer Science programs. The aim of this book is to help the students develop programming and algorithm analysis skills simultaneously such that they are able to design programs with maximum efficiency. C language has been used in the book to permit the execution of basic data structures in a variety of ways. Key Features 1. Simple and easy-to-follow text 2. Wide coverage of topics 3. Programming examples for clarity 4. Summary and exercises at the end of each chapter to test your knowledge 5. Answers to selected exercises 6. University question papers with answers 7. Objective type questions for practice The works of the 1991 Nobel prize winner in Physics, Pierre-Gilles de Gennes, have transformed condensed matter physics. Over the last three decades, he has left his indelible mark on an astonishing variety of condensed matter topics — magnets, superconductors, liquid crystals, polymers, interfaces, wetting and adhesions, and chirality. In doing so, he has bridged the gap between solid state physics and physical chemistry, and has forged close links between experimentalists and theoreticians. In awarding him the 1991 Nobel prize for his theoretical studies on liquid crystals and polymers, the Nobel foundation has paid tribute to his undoubted genius in discovering mathematical simplicity and elegance in the most complex and “messy” of systems. His deep insights into these fields have enabled others to exploit liquid crystals in technology and have paved the way for physicists to work on polymers. SIMPLE VIEWS ON CONDENSED MATTER presents a personal selection of the major works of de Gennes. It comes complete with afterthoughts by the author on his main papers, explaining their successes or weaknesses, and the current views on each special problem. This collector's volume contains all the important works of de Gennes which have made a lasting impact on our understanding of condensed matter, and serves as an essential reference book for all condensed matter physicists and physical chemists. It also bears testimony to the genius of a remarkable man, and should be a source of inspiration for aspiring scientists around the world. Contents:Part I. Solid State:Sur un exemple de propagation dans un milieu désordonnéEffects of double exchange in magnetic crystalsNuclear magnetic resonance modes in magnetic material. I. TheoryOnset of superconductivity in decreasing fieldsBoundary effects in superconductorsPart II. Liquid Crystals:Soluble model for fibrous structures with steric constraintsConjectures sur I'état smectiqueDynamics of fluctuations in nematic liquid crystalsNotes on the dynamics of prenematic fluidsAn analogy between superconductors and smectics AHydrodynamic properties of fluid lamellar phases of lipid/waterPart III. Polymers:Quasi-elastic scattering of neutrons by dilute, ideal, polymer solutions: I. Free-draining limitQuasi-elastic scattering by dilute, ideal, polymer solutions: II. Effects of hydrodynamic interactionsMinimum number of aminoacids required to build up a specific receptor with a folded polypeptide chainReptation of a polymer chain in the presence of fixed obstaclesCoil-stretch transition of dilute flexible polymers under ultrahigh velocity gradientsSolutions of flexible polymers: neutron experiments and interpretationTheoretical methods of polymer statisticsEcoulements viscométriques de polymères enchevêtrésTheory of long-range correlations in polymer meltsTight knotsA second type of phase separation in polymer solutionsPart IV. Interfaces:Phénomènes aux parois dans un mélange binaire critiqueSuspensions

colloïdales dans une solution de polymèresConformations of polymers attached to an interfaceSur une règle de somme pour des chaînes polymériques semi-diluées près d'une paroiMicroemulsions and the flexibility of oil/water interfacesTransitions de monocouches à molécules polairesPolymers at an interface: a simplified viewStabilité des films de savon “jeunes”Part V. Wetting and Adhesion:Wetting: statics and dynamicsDynamics of drying and film-thinningTension superficielle des polymères fondusEtalement d'une goutte stratifiée incompressibleDynamics of partial wettingFracture d'un adhésif faiblement réticuléPolymer-polymer welding and slidingPart VI. Chirality:Sur l'impossibilité de certaines synthèses asymétriquesPierre Curie et le role de la symétrie des Iois physiquesDiscrimination chirale dans une monocouche de Langmuir Readership: Physicists, chemists, hydrodynamicists and materials scientists. keywords:Complex Fluids;Soft Matter;Polymers;Liquid Crystals;Random Media;Wetting;Colloids;Interfaces;Adhesion;Chirality “This book collects a series of articles in which problems which had always been thought quite intractable are shown to be solved by simple, but clear thinking. Although the phrase “simple views” is justified by the clarity of de Gennes exposition, the problems had been unresolved for decades and it is a tribute to de Gennes' intuitive skill that he has been able to solve so many problems which are not only deep basic science, but also central in modern technology.” Sam Edwards Univ. Cambridge, UK “For amateurs and connoisseurs — interested in physics, chemistry or biology — Pierre-Gilles de Gennes has opened his gentry-style ‘cabinet de curiosités’. Miscellaneous products of his inventive industry, including the famous and the unfamous, are brought together in this self-selected Collection, accompanied with recent hindsightful remarks of the Nobel laureate.” Gérard Toulouse Ecole Normale Supérieure, France “This volume of collected works of Pierre-Gilles de Gennes will be a valuable and stimulating source for many years to come for younger readers and for beginners in the subfields of condensed matter covered in this volume, as well as a useful and compact reference book for all workers in the field.” Helmut R Brand Advanced Materials This book collects a series of contributions addressing the various contexts in which the theory of Lie groups is applied. A preliminary chapter serves the reader both as a basic reference source and as an ongoing thread that runs through the subsequent chapters. From representation theory and Gerstenhaber algebras to control theory, from differential equations to Finsler geometry and Lepage manifolds, the book introduces young researchers in Mathematics to a wealth of different topics, encouraging a multidisciplinary approach to research. As such, it is suitable for students in doctoral courses, and will also benefit researchers who want to expand their field of interest. This book is about the theoretical and practical aspects of the statistics of Extreme Events in Nature. Most importantly, this is the first text in which Copulas are introduced and used in Geophysics. Several topics are fully original, and show how standard models and calculations can be improved by exploiting the opportunities offered by Copulas. In addition, new quantities useful for design and risk assessment are introduced. Studies of millinery tend to focus on hats, rather than the extraordinarily skilled workers who create them. American Milliners and their World sets out to redress the balance, examining the position of the milliner in American society from the 18th to the 20th century. Concentrating on the struggle of female hat-makers to claim their social place, it investigates how they were influenced by changing attitudes towards women in the workplace. Drawing on diaries, etiquette books, trade journals and contemporary literature, Stewart illustrates how making hats became big business, but milliners' working conditions failed to improve. Taking the reader from the Industrial Revolution of the 1760s to the sexual revolution of the 1960s, and from Belle Epoque feathers to elegant cloches and Jackie Kennedy's pillbox hat, the book offers a new insight into the rise and fall of a fashionable industry. Beautifully illustrated and packed with original research, American Milliners and their World blends fashion history and anthropology to tell the forgotten stories of the women behind some of the most iconic hats of the last three centuries. Engineering Graphics, in its 13th year, has been succinctly revised for the Engineering students of 1st year of Gujarat Technological University, AhmedabadBeginning with the units, dimensions and standard, this book discusses the

measurement and measurement errors. Then, it goes on to discuss electronics equipment,measurements of low resistence and A.C. bridges.Moreover,the book deals with the cathode ray oscilloscopes.Further,it describes various instrument calibration. Finally,the book deals with recorders and plotters. This book provides comprehensive introduction to a consortium of technologies underlying soft computing, an evolving branch of computational intelligence. The constituent technologies discussed comprise neural networks, fuzzy logic, genetic algorithms, and a number of hybrid systems which include classes such as neuro-fuzzy, fuzzy-genetic, and neuro-genetic systems. The hybridization of the technologies is demonstrated on architectures such as Fuzzy-Back-propagation Networks (NN-FL), Simplified Fuzzy ARTMAP (NN-FL), and Fuzzy Associative Memories. The book also gives an exhaustive discussion of FL-GA hybridization. Every architecture has been discussed in detail through illustrative examples and applications. The algorithms have been presented in pseudo-code with a step-by-step illustration of the same in problems. The applications, demonstrative of the potential of the architectures, have been chosen from diverse disciplines of science and engineering. This book with a wealth of information that is clearly presented and illustrated by many examples and applications is designed for use as a text for courses in soft computing at both the senior undergraduate and first-year post-graduate engineering levels. It should also be of interest to researchers and technologists desirous of applying soft computing technologies to their respective fields of work. The importance of Electrical Circuit Analysis is well known in the various engineering fields. The book provides comprehensive coverage of mesh and node analysis, various network theorems, analysis of first and second order networks using time and Laplace domain, steady state analysis of a.c. circuits, coupled circuits and dot conventions, network functions, resonance and two port network parameters. The book starts with explaining the network simplification techniques including mesh analysis, node analysis and source shifting. Then the book explains the various network theorems and concept of duality. The book also covers the solution of first and second order networks in time domain. The sinusoidal steady state analysis of electrical circuits is also explained in the book. The book incorporates the discussion of coupled circuits and dot conventions. The Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes the discussion of network functions of one and two port networks. The book incorporates the detailed discussion of resonant circuits. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between the two port network parameters. The book uses plain and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book. The book explains the philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting. Pozar's new edition of Microwave Engineering includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. Chemistry in the laundry (soaps, detergents, etc.) - Kitchen (butter, fats,

oils, waxes) - Bedroom (cosmetics) - Garden (pesticides, etc.); Chemistry of plastics, glass, metals, fibres and fabrics, enamel, cement. ; Chemistry in the medicine cabinet (drugs, aspirin, etc.) - Dining room (food, alcohol, caffeine etc,) - Chemistry of energy (solar, nuclear, ozone) - Heavy metals and radiation._____ The book enumerates the concepts related to C programming language. The best way to learn any programming language is through examples. The book uses the same approach - each concept is followed by an appropriate example to understand the implementation of the learned concepts. The book begins with the basic components of a computer and their functions, concepts of hardware and software, types of software, compilers, interpreter, linkers and loaders, programming languages, flowcharts and algorithms. The book explains C program structure, data types, constants, variables, expressions, operators, I/O functions and control structures. It teaches you how to use arrays, strings, functions, pointers, files, structures, dynamic memory allocation, storage classes and command line arguments. It also explains the searching and sorting algorithms. Questions and answers at the end of each chapter help readers to revise the essential concepts covered in the chapter. Masterly’s Series LAB MANUAL OF PHARMACEUTICS-I For Diploma Pharmacy First Year as Per GTU & PCI SYLLABUS To Laser Physics With 87 Figures Springer-Verlag Berlin Heidelberg GmbH 1984 Professor Koichi Shimoda Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Kohokuku, Yokohama 223, Japan ARTHUR L. SCHAWLOW, Ph. D. Editorial Board Department of Physics, . Stanford University Stanford, CA 94305, USA JAY M. ENOCH, Ph. D. Professor KOICHI SHIMODA School of Optometry, Faculty of Science and Technology, University of California Keio University, 3-14-1 Hiyoshi, Kohoku-ku Berkeley, CA 94720, USA Yokohama 223, Japan DAVID L. MACADAM, Ph. D. THEODOR TAMIR, Ph. D. 68 Hamrnond Street, 981 East Lawn Drive, Rochester, NY 14615, USA Teaneck, NJ 07666, USA Revised translation of the original Japanese edition: Koichi Shimoda: Reza Butsuri Nyumon © Koichi Shimoda 1983 Originally published in Japanese by Iwanami Shoten, Publishers, Tokyo (1983) English translation by Munetada Yamamuro ISBN 978-3-662-13550-1 ISBN 978-3-662-13548-8 (eBook) DOI 10.1007/978-3-662-13548-8 Library of Congress Cataloging in Publication Data. Shimoda, Köichi. Introduction to laser physics. (Springer series in optical sciences .; v. 44) Rev. translation of: Koichi Shimoda: Reza Butsuri Ny11mon. 1. Lasers. 1. Title. H. Series. QC688.S55 1984 535.5'8 84-5629 This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concemed, specifically those of translation, reprinting, reuse of illustrations, broadcasting, reproduction by photocopying machine or similar means, and storage in data banks. Under {sect} 54 ofthe German Copyright Law, where copies are made for other than private use, a fee is payable to "Verwertungsgesellschaft Wort", Munich "This book stresses the importance of active advocacy for education in the church, suggesting the balance between worship, social service, and education is out of whack. Morgan promotes a new understanding of education at all levels of church life that takes the discussion beyond questions of survival, finances, and status quo to discover new roles in developing mission through the church and out in the world." The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel

operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test, retardation test and Hopkinson's test. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. The book Operating System is an insightful work that elaborates on fundamentals as well as advanced topics of the discipline. Keeping the needs of the students in mind, this book offers an in-depth coverage of concepts, design and functions of an operating system irrespective of the hardware used. With neat illustrations and examples and presentation of difficult concepts in the simplest form, the aim is to make the subject crystal clear to the students, and the book extremely student-friendly. The book caters to undergraduate students of most Indian universities, who would find the introductory and advanced discussions highly informative and enriching. Tailored as a guide for self-paced learning the book equips budding system programmers with the right knowledge and expertise. The topics covered include: Organization of the computer system; communication between processes; threads and multithreading models; scheduling criteria and algorithms; synchronization among cooperating processes; deadlock situation; memory management; virtual memory; I/O system; disk scheduling algorithms, disk management, swap-space management and RAID; file types, attributes and access methods; managing files, directories and disc space; security and protection in computers; UNIX and Linux operating systems; implementation of various OS concepts in Windows 2000; multiprocessor and distributed systems. Infinite-dimensional analysis and quantum probability have undergone significant developments in the last few years and created many applications. This volume includes four expository articles on recent developments in quantum field theory, quantum stochastic differential equations, free probability and quantum white noise calculus, which are targeted also for graduate study. The fourteen research papers deal with most of the current topics, and their interconnections reflect a vivid development in interacting Fock space, infinite-dimensional groups, stochastic independence, non-commutative central limit theorems, stochastic geometry, and so on. The 1990s are proving to be a very exciting p&iod for high angular resolution astronomy. At radio wavelengths a combination of new array instruments and pow erful imaging algorithms have generated images of unprecedented resolution and quality. In the optical and infrared, the great technical difficulties associated with constructing separated-aperture interferometers have been largely overcome, and many new instruments are now operating or are being developed. As these pro grams start to produce observational results they will be able to draw extensively on the experience gained by the radio-interferometry community. Thus it seemed that the time was ripe for a meeting which would bring together workers from all wavelength ranges to discuss the details of the science and art of "Very High Angular Resolution Imaging" . While the main emphasis of Symposium No. 158 was on high resolution tech niques from the radio, mm-wave, infrared and optical bands, it also provided an opportunity for presentation of astronomical results from these techniques. As well as giving our colleagues from the Northern Hemisphere a break from midwinter, the location of the Symposium in Australia recognised the continuing development of astronomical interferometry in this country, especially the recent completion of the Australia Telescope radio array, and the progress toward com missioning of the Sydney University Stellar Interferometer. A number of the par ticipants visited these instruments during the post-symposium tour. Volume is indexed by Thomson Reuters BCI (WoS). A forum of researchers, educators and engineers involved in various aspects of Machine Design provided the inspiration for this collection of peer-reviewed papers. The resultant dissemination of the latest

research results, and the exchange of views concerning the future research directions to be taken in this field will make the work of immense value to all those having an interest in the topics covered. The book reflects the cooperative efforts made in seeking out the best strategies for effecting improvements in the quality and the reliability of machines and machine parts and for extending their fields of application. The book is written for an undergraduate course on the theory of Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach looses the importance of initial conditions in the systems. Thus the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The book also introduces the concept of discrete time systems including digital and sample data systems, z-transform, difference equations, state space representation, pulse transfer functions and stability of linear discrete time systems. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. Strictly according to the New Syllabus of Gujarat Technology University,Ahmedabad (Common to All Branches of B.E. / B.Tech 1st year) This book constitutes the refereed post-conference proceedings of the 24th International Conference on Distributed and Computer and Communication Networks, DCCN 2021, held in Moscow, Russia, in September 2021. The 26 revised full papers and 3 revised short papers were carefully reviewed and selected from 151 submissions. The papers cover the following topics: computer and communication networks; analytical modeling of distributed systems; and distributed systems applications.

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