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Fundamentals of Statistics Fundamentals of Mathematical Statistics Fundamentals of Mathematical Statistics TEXTBOOK ON OPTICAL FIBER COMMUNICATION AND ITS APPLICATIONS, THIRD EDITION English Prepositions What?Where?How? Learn English Series Angreji Ratein Nahi ; Seekhin 60 Days' Programme Mastering English Grammar Fluid Mechanics and Hydraulic Machines 151 Essays General English for All Competitive Examinations A Handbook for Letter Writing English Grammar & Composition Very Useful for All Competitive Examinations OPTOELECTRONIC DEVICES AND SYSTEMS The Classical Stefan Problem Practical English Grammar & Composition Active Electrical Distribution Network Cumulated Index Medicus Bibliography of Agriculture Angreji Bolna Seekhein Also How to Face Interviews & Group Discussions The Quarterly Civil List for Burma The Anther Business Law Comprehensive English Grammar & Composition Statistical Analysis of Quantitative Genetics Hindi-English Expert Translator Hindi se English Translation Mai Step-By-Step Purn Dakshta Ke Liye Materials Under Extreme Conditions Shock Compression of Condensed Matter - 1991 International Business Management : Multinational Management Upper Burma Rulings Upper Burma Rulings, Being the Selected Judgments of the Court of the Judicial Commissioner, Upper Burma Learn English Series - English Grammar & Composition Doubled Haploid Production in Crop Plants Wild Plants Nuclear Magnetic Resonance Routledge Handbook of the Environment in Southeast Asia Management Accounting, 4th Edition Computer Application in Business (Tamil Nadu) Comparative Embryology of Angiosperms Vol. 1/2 Pharmacology of Bombax ceiba Linn. Advances in Soil Science Selected Water Resources Abstracts

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A Handbook for Letter Writing' is a comprehensive & exhaustive book which has been designed to help in learning the art and techniques of writing letters. The words and language that are being used while writing a letter not only shows our knowledge but also reflects our personality. The present book on letter writing has been divided into five chapters namely An Introduction of Letter Writing, Informal Letters, Formal Letters, Reference/ Recommendation Letters and Email. This book contains various types of letters – Personal, Business Letters, Applications, Official Letters, Application Writing, Apology, Condolence, etc. The book also contains the E-mailing, Report Writing and Press Release sections. A simple and easy language with the latest pattern has been used in this book. This book will also help you in developing the research and writing skills. Materials Under Extreme Conditions: Recent Trends and Future Prospects analyzes the chemical transformation and decomposition of materials exposed to extreme conditions, such as high temperature, high pressure, hostile chemical environments, high radiation fields, high vacuum, high magnetic and electric fields, wear and abrasion related to chemical bonding, special crystallographic features, and microstructures. The materials covered in this work encompass oxides, non-oxides, alloys and intermetallics, glasses, and carbon-based materials. The book is written for researchers in academia and industry, and technologists in chemical engineering, materials chemistry, chemistry, and condensed matter physics. Describes and analyzes the chemical transformation and decomposition of a wide range of materials exposed to extreme conditions Brings together information currently scattered across the Internet or incoherently dispersed amongst journals and proceedings Presents chapters on phenomena, materials synthesis, and processing, characterization and properties, and applications Written by established researchers in the field The book offers a simple yet effective way to learn English as well as to translate from Hindi to English. It contains several common hindi sentences that have been translated into English that allow a learner to easily understand day-to-day words and how to use them in sentences when writing or speaking in English. By learning how typical

Hindi sentences, when translated into English can be used in everyday life, one can improve his or her grasp about using both the language. Besides the author, a good bi-linguist, has even detailed the grammatical aspects about each topic given in the book, which offer self-improving problems with easy solutions to them. Different sections have been created so as to improve the reader's basic grammar, which includes Nouns, Pronouns, Tenses, Sentence making, etc. Each section comes with a separate practice set that lets the readers test English reading, writing and speaking skills as well as the translation ability that one has been able to learn. There is even a separate vocabulary section to help readers learn more new words and how to use them effectively while communicating. With step-by-step guidelines, one can surely bring fluency in their English language usage over a few months. It's a great pleasure in presenting this fifth thoroughly revised edition of the book on Computer Applications in Business. In this revised edition, the book includes Operating System, E-Commerce & Internet, System Analysis & Design, Computer based Information System and Database. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. 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The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others For those wanting to become rapidly acquainted with specific areas of NMR, this title provides unrivalled scope of coverage. This is the must have book for success in competitive exams. The comprehensive English grammar and composition is very good book for thorough preparation for the competitive exams. The book covers the entire syllabus for gaining clear concepts in English. It is an excellent book for grammar practice and has many exercises and detailed explanation. The book is very nice and explanation is very simple and good. The book is very helpful for the beginners also since it gives detailed explanations of the different concepts of English grammar. The production of doubled haploids has become a necessary tool in advanced plant breeding institutes and commercial companies for breeding many crop species. However, the development of new, more efficient and cheaper large scale production protocols has meant that doubled haploids are also recently being applied in less advanced breeding programmes. This Manual was prepared to stimulate the wider use of this technology for speeding

and opening up new breeding possibilities for many crops including some woody tree species. Since the construction of genetic maps using molecular markers requires the development of segregating doubled haploid populations in numerous crop species, we hope that this Manual will also help molecular biologists in establishing such mapping populations. For many years, both the Food and Agriculture Organization of the United Nations (FAO) and the International Atomic Energy Agency (IAEA) have supported and coordinated research that focuses on development of more efficient doubled haploid production methods and their applications in breeding of new varieties and basic research through their Plant Breeding and Genetics Section of the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture. The first FAO/IAEA scientific network (Coordinated Research Programme - CRP) dealing with doubled haploids was initiated by the Plant Breeding and Genetics Section in 1986. To understand and make the practical use of the grammatical rules is a challenge poised at various competitive exams. Students preparing for various competitive exams need elucidated grammar rules that are explained in a very easy and understandable language. Practical English Grammar & Composition is the hand book and an easy guide to learn English aimed at learning and improving knowledge of grammar and its applicability. In order to make the students conversant with the practical applicability of the grammar rules, sentences depicting the right usage are also given after the rules. A number of solved exercises are also given after the chapters that enable the students test their acquired knowledge. Word Powers section is a unique feature of the book that will play a crucial role in making the students ready to face the competitions ahead.

ACTIVE ELECTRICAL DISTRIBUTION NETWORK Discover the major issues, solutions, techniques, and applications of active electrical distribution networks with this edited resource *Active Electrical Distribution Network: A Smart Approach* delivers a comprehensive and insightful guide dedicated to addressing the major issues affecting an often-overlooked sector of the electrical industry: electrical distribution. The book discusses in detail a variety of challenges facing the smart electrical distribution network and presents a detailed framework to address these challenges with renewable energy integration. The book offers readers fulsome analyses of active distribution networks for smart grids, as well as active control approached for distributed generation, electric vehicle technology, smart metering systems, smart monitoring devices, smart management systems, and various storage systems. It provides a treatment of the analysis, modeling, and implementation of active electrical distribution systems and an exploration of the ways professionals and researchers from academia and industry attempt to meet the significant challenges facing them. From smart home energy management systems to approaches for the reconfiguration of active distribution networks with renewable energy integration, readers will also enjoy: A thorough introduction to electrical distribution networks, including conventional and smart networks An exploration of various existing issues related to the electrical distribution network An examination of the importance of harmonics mitigation in smart distribution networks, including active filters A treatment of reactive power compensation under smart distribution networks, including techniques like capacitor banks and smart devices An analysis of smart distribution network reliability assessment and enhancement Perfect for professionals, scientists, technologists, developers, designers, and researchers in smart grid technologies, security, and information technology, *Active Electrical Distribution Network: A Smart Approach* will also earn a place in the libraries of policy and administration professionals, as well as those involved with electric utilities, electric policy development, and regulating authorities. Publisher Description

151, that's Not at all the Number of Essays covered in the Bestselling Book, Penned by Renowned Author Mr. S C Gupta, 151 Essays is a Complete Guide to help students learn the art of essay writing through More than 160 Essays covering the panoramic view of topics on Contemporary, Social, Environmental, Political, Education, Economic, Science & Technology, International, Personalities, Proverbial & Idiomatic, Sports and Many More The Book starts with a focus on developing the craft of essay writing which needs detailed knowledge of the topic, discipline of mind, analytical skills to draw a conclusion, rich vocabulary to express the thoughts, grammatical accuracy and coherence of thoughts and ideas for contextual writing. The Book is divided in 2 Major Parts, the first part prepares you to know-how of the Essay Writing be it Understanding an Essay, Part of an Essay, Steps to write an effective and Interesting Essay and Essay Sketching Techniques. the Second Part Contains All the Latest and Updated Topics from all the Field of life i.e. GST, Digital India, NET Neutrality, Black Money, Drone Technology, Juvenile Justice Act 1925, Social Networking Sites, Honor Killing, Electoral Reforms and Indian Democracy, FDI Effect on Retail Stores, Role

of Agriculture in Economic Reform, Indian Civil Nuclear Strategy, Terrorism In India & It's Changing Face, Global Climate Change, Students & Politics, Right to Education, Kalpana Chawla, Narendra Modi, Sunder Pichai, IPL, Sports is it Loosing it's Integrity, Habit- a Good Servant but a Bad Master, Communication face to face or Facebook and Many burning and Important Topics. While these are important and Critical Topics Author has put a clear and easy language to Understand, Vocab Cards to understand difficult words, Latest and Updated Data to understand actual status Essays Plays an important role in competitive exams hence it's a must have book for all aspirants. This book offers a broad summary of the wild plants and their usage, as well as the growing interest in ethnopharmacology research. The book comprises of important issues such as diversity of wild plants with emphasis on medicinal and food plants, threats to wild plants and traditional ethnobotanical knowledge, their uses in skin diseases, snake-bites, in cosmeceuticals, etc. Moreover, the ethnopharmacological relevance of wild plants in Latin America has been discussed. The chapters include a wide range of case studies, giving updated evidence on the importance of their wild plant resources from different countries including Peru, Nepal, Bangladesh, India, Pakistan, Brazil. In addition, some specific species are used to explain their potential properties, as well as the dangers of their use without guidance of trained natural healers. The book discusses traditional usage and properties of wild plants and is entirely different from other related publications and useful for the researchers working in the areas of conservation biology, botany, ethnobiology, ethnopharmacology, policymakers, etc. The book, now in its third edition, is thoroughly revised and updated as per the new syllabi of Optical Fiber Communication of various universities. The material is well-presented and designed for undergraduate and postgraduate students pursuing courses in Electrical Engineering, and Electronics and Telecommunication Engineering. The book offers a completely accessible and in-depth knowledge of the principles and applications of optical fiber communication (OFC). It deals with materials, devices, components, and systems of OFC. The coverage includes key concepts such as properties of light, evolution and elements of OFC, its benefits, along with applications in optical LAN and communication links. The attenuation loss of different types, dispersion mechanism, photon sources (LED and lasers), detectors (PIN and avalanche), analog and digital transmitter and receiver systems, connectorization, OADM, and amplifiers are described. Built-up of long haul OFC links at 8 Mb/s and 2.5 Gb/s, and optical interface are explained with illustrations. It also contains solved numerical problems for better understanding of topics. **KEY FEATURES** • Includes optical fiber LAN for data centres and industries • Provides detail treatment of LED, semiconductor, lasers, Tx and Rx • Discusses all optical communications links and optical networks • Includes important questions with answers • Provides practice papers and model test papers In English language, preposition is a part of speech that introduces a prepositional phrase. Preposition governs a sentence in English. Thus to master sentence formation it is necessary that we should be well versed with the use of prepositions and their differential meanings. The present book will make you learn more about the commonly used prepositions, how they are being used, to make a sentence meaningful and striking. The present book for usage of prepositions in English language is divided into 23 chapters covering wide range of prepositions like At, Onto, Since, During, Above, etc along with coverage of Prepositions with Nouns, Adjectives & Verbs, Prepositions used in Idioms, Unnecessary Prepositions, Ellipsis in Preposition, Preposition + Gerund, Preposition Omitted, Prepositions & Adverbs, Verb + Preposition, Use of Some Prepositions and Appropriate Prepositions. Also practice exercises with 650 questions have been provided at the end of the book along with the answers to all the questions covered in the exercises. **COMPARATIVE EMBRYOLOGY OF ANGIOSPERMS** is a review of the developmental processes leading to sexual reproduction in flowering plants. On the basis of embryological data and certain evidences from other areas of study, it lays special emphasis on the relationship among and within the families and orders of angiosperms. Occasionally, inaccuracies in observation and interpretation are pointed out, alternative interpretations offered, gaps in our knowledge highlighted, and prospects outlined. The text is documented with 36 tables, 376 figures, and about 5000 literature citations, which contribute to making this book comprehensive. Besides students and research workers interested in angiosperm embryology, taxonomists, plant breeders, agriculturists, and horticulturists will also find much useful information in this treatise. **About the Book:** This book deals with the problems of students, teachers and researchers associated with the subject of genetics, plant and animal breeding. Basic concepts necessary to explain statistical measures and analysis of data are also incorporated. Path analysis, heritability, repeatability, genotypic

and phenotypic correlations, analysis of breeding experiments by Hayman's approach and otherwise, combining ability analysis for Griffing's models, line x tester analysis, stability analysis etc., are explicated theoretically and also by demonstrating thoroughly worked examples. This book will also bridge the gap between consulting statisticians and breeders. In a broader sense this book is good for students and researchers in the areas of biology, plant breeding, animal breeding, etc., in multifarious ways. Contents: Basics of Genetics Path Analysis Heritability and Repeatability Breeding and Data Analysis Combining Ability Analysis Stability Analysis. Nowadays English language section is asked in almost all competitive and recruitment examinations like SSC, Banking, CDS, State Level PSCs, etc. Otherwise too, being proficient in English is necessary in this fast modernizing world. This book has been designed to act as a comprehensive guide to learning English Grammar & Composition. The present book for English Grammar & Composition has been divided into 69 chapters covering Articles, Noun, Pronoun, Adverbs, Participle, Gerund, Preposition, Conjunctions, Transformation of Sentences, Question Tag, Question Framing, Formation of Words, Spelling Rules, Phrasal Verbs, Idioms & Phrases, Spotting the Errors, Word Power, Synonyms, Antonyms, Homonyms, Heteronyms, Palindromes, Pangrams, Foreign Words, Group Terms, Choosing Appropriate Words, Words Used as Different Parts of Speech, Young Ones of Animals, Paragraph Writing, Letter Writing, Report Writing, Comprehension, etc. The book contains approximately 10,000 sentences, 7000 solved questions, 7000 knowledge words and 550 Solved Exercises covering the minute concepts of English Grammar & Composition. The book also contains tricks and techniques for solving various kinds of questions. This book will prove to be highly useful for Hindi Language students. As the book contains ample theoretical content as well as number of solved questions, it for sure will help aspirants succeed in learning and writing English proficiently. Fluid Mechanics And Hydraulic Machines is designed for the course on fluid mechanics and hydraulic machines offered to the undergraduate students of mechanical and civil engineering. Written in a lucid style, the book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in the reader. The Seventh Revised Edition of "Business Law" as per Tamil Nadu University syllabus for all BBA, B.Com. students. The new edition, like its predecessors, attempts to present the basic principles of Law in a way that makes the subject easily intelligible even to a non-specialist. This object has been achieved by dividing into IV units: Unit I – The Indian Contract Act consists of 157 Illustrative Cases, 213 Test Questions, 326 Practical Problems (with Hints and Solutions), 174 Multiple-choice Questions, 194 True & False Questions and 644 Examples with the idea of testing the depth of knowledge of the reader, basic understanding of concepts and his ability to apply whatever he has learnt to a particular situation or problem. Unit II – The Sale of Goods Act, 1930. Unit III – Law Relating to The Indian Partnership Act, 1932 and The Limited Liability Partnership Act, 2008. It facilitate the reader in understanding the Nature of Partnership, Relations of Partners & Dissolution of Firm followed by a chapter on 'Limited Liability Partnership' popularly known as LLP has been added in the present edition. LLP combines the advantage of both the Company and Partnership into a single form of organization. The Limited Liability Partnership Act, 2008 was published in Official Gazette of India on 9th January, 2009 and has been notified with effect from 31st March, 2009. Unit IV – The Companies Act, 2013 as Amended upto 2019. The Companies Act, 2013 (Schedules) which has been thoroughly updated and amended upto 2019 to our esteemed readers. For B.Com.(P&Hons.), M.Com., MBA of all Indian Universities and Professional Courses Like ICWA & ICAI .The main aim of this book is to facilitate easy understanding of the matter at one reading without any tediousness in grasping the theories and illustrations . Almost all the illustrations have been added at proper places. The environment is one of the defining issues of our times, and it is closely linked to questions and dilemmas surrounding economic development. Southeast Asia is one of the world's most economically and demographically dynamic regions, and it is also one in which a host of environmental issues raise themselves. The Routledge Handbook of the Environment in Southeast Asia is a collection of 30 chapters dealing with the most significant scholarly debates in this rapidly growing field of study. Structured in four main parts, it gives a comprehensive regional overview of, and insight into, the environment in Southeast Asia. Wide-ranging and balanced, this handbook promotes scholarly understanding of how environmental issues are dealt with from diverse theoretical perspectives. It offers a detailed empirical understanding of the myriad environmental problems and challenges faced in Southeast Asia. This is the first publication of its kind in this field; a helpful companion for a global audience and for scholars of Southeast Asian studies from a variety

of disciplines. English is globally recognized language for cross-border business communication. As a dominant business language, fluency and expertise in the language can help you build great opportunities of professional growth. The paper of English language usually contains Questions relating to Grammatical Concepts, Word Power and Compositional English in almost all competitive examinations like Bank PO, Bank Clerical, CDS, NDA, Railways, etc. The book of General English includes over 600 Practice Exercises and 10,000 Words & Sentences Structures for all Competitive exams divided in 32 chapters. Each chapter comprehensively contains short synopsis, detailed description of important rules and enough practice exercises. Almost all types of objective questions and previous years' questions that appear in Competitive examinations have been compiled together to help the candidates in understanding the rationale behind the answers. Table of Content Spotting the Errors, Phrase Substitution and Sentence Improvement, Ordering of Sentences, Ordering of Words/Rearranging the Sentence, Cloze Test/Passages, Choosing Appropriate Words, Double Blanks in a Sentence, Related Pair of Words, Synonyms/Antonyms, Idioms and Phrases, Homonyms, Phrasal Verbs, Comprehension, Tense, Forms of Verbs, Modals, Subject-Verb Agreement, Non-Finites, Noun, Pronoun, Articles, Preposition, Conjunction, Adjectives and Determiners, Adverbs, Question Tags, Conditionals, Un-English and Superfluous Expressions Reported Speech (Direct- Indirect Narrations), Active-Passive... To understand and make the practical use of the grammatical rules is a challenge poised at various competitive exams. Students preparing for various competitive exams need elucidated grammar rules that are explained in a very easy and understandable language. Practical English Grammar & Composition is the hand book and an easy guide to learn English aimed at learning and improving knowledge of grammar and its applicability. In order to make the students conversant with the practical applicability of the grammar rules, sentences depicting the right usage are also given after the rules. A number of solved exercises are also given after the chapters that enable the students test their acquired knowledge. Word Powers section is a unique feature of the book that will play a crucial role in making the students ready to face the competitions ahead. Table of Content To understand and make the practical use of the grammatical rules is a challenge poised at various competitive exams. Students preparing for various competitive exams need elucidated grammar rules that are explained in a very easy and understandable language. Practical English Grammar & Composition is the hand book and an easy guide to learn English aimed at learning and improving knowledge of grammar and its applicability. In order to make the students conversant with the practical applicability of the grammar rules, sentences depicting the right usage are also given after the rules. The world needs for food and fiber continue to increase. Population growth in the developing countries peaked at 2.4 percent a year in 1965 and has fallen to about 2.1 percent. However, in many developing countries almost half the people are under 15 years of age, poised to enter their productive and reproductive years. The challenges to produce enough food for this growing population will remain great. Even more challenging is growing the food in the areas of greatest need. Presently the world has great surpluses of food and fiber in some areas while there are devastating deficiencies in other areas. Economic conditions and the lack of suitable infrastructure for distribution all too often limit the alleviation of hunger even when there are adequate supplies, sometimes even within the country itself. World hunger can only be solved in the long run by increasing crop production in the areas where the population is growing most rapidly. This will require increased efforts of both the developed and developing countries. Much of the technology that is so successful for crop production in the developed countries cannot be utilized directly in the developing countries. Many of the principles, however, can and must be adapted to the conditions, both physical and economic, of the developing countries. This series, Advances in Soil Science. This volume emphasises studies related to classical Stefan problems. The term "Stefan problem" is generally used for heat transfer problems with phase-changes such as from the liquid to the solid. Stefan problems have some characteristics that are typical of them, but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics similar to them. The term "classical" distinguishes the formulation of these problems from their weak formulation, in which the solution need not possess classical derivatives. Under suitable assumptions, a weak solution could be as good as a classical solution. In hyperbolic Stefan problems, the characteristic features of Stefan problems are present but unlike in Stefan problems, discontinuous solutions are allowed because of the hyperbolic nature of the heat equation. The numerical solutions of inverse Stefan problems, and the analysis of direct Stefan problems are so integrated that it is difficult to discuss one without referring to

the other. So no strict line of demarcation can be identified between a classical Stefan problem and other similar problems. On the other hand, including every related problem in the domain of classical Stefan problem would require several volumes for their description. A suitable compromise has to be made. The basic concepts, modelling, and analysis of the classical Stefan problems have been extensively investigated and there seems to be a need to report the results at one place. This book attempts to answer that need. This work is the first monograph devoted solely to Bombax ceiba, popularly known as the Red Silk Cotton Tree. Consisting of seven chapters, it covers all relevant aspects of this plant, from its historical and spiritual importance, to its botanical characterization, pharmacognostical details and ethnobiological uses, to its scientific validation in various animal and human studies. Each part of the tree is of medicinal value and possesses many novel chemical constituents such as shamimicin, bombasin, bombamalone, bombamaloside etc. along with other bioactive secondary metabolites. The book presents the chemical structures of the most important constituents and highlights various pharmacological activities, predominantly antioxidant, anti-inflammatory, anti-mutagenic, hypoglycemic, hypotensive, hepatoprotective and fibrinolytic, which may prove to be a source for the development of a novel phyto-pharmaceutical agent to treat diabetes, heart disease and cancer. In addition, separate chapters deal with the commercial and ecological significance of B. ceiba, as well as a case study on its conservation. Numerous color illustrations are included to identify the plant and to justify its nickname, the "Little Bird's Cafeteria". This textbook, now in the second edition, offers a completely up-to-date and in-depth introduction to the principles and applications of optoelectronic devices and systems. The text gives a detailed description of optical fibre waveguides, optical fibre cables and their characteristics, manufacturing process and drawing of optical fibres. In addition, it deals with photon sources, photon detectors, fibre optics as a medium and LAN and WAN systems, short and long haul optical fibre communication systems, electro-optic modulators and their characteristics. The second edition possesses a new section on Optical Fibre Based Broadband High Speed Network in Chapter 8, thus highlighting an updated version. Apart from this, a new chapter on Intensity Dependent Refractive Index Effect has been introduced into the text that discusses the effect of focusing on spatial and temperature profiles in a non-linear crystal medium. This chapter further explains the various physical phenomena like the creation of sharp opaque filaments, irradiation induced damaging of the crystal, oscillatory waveguide propagation, saturation effects and other properties in detail. Primarily intended for the undergraduate students of electronics and communication engineering, the book should also prove extremely useful for the postgraduate students of physics. Key features • Provides comprehensive explanation of optical fibre communication with illustrations. • Gives extensive theory and experimental and holographic applications. • Discusses the applications of lasers in industry, military and medical as well as fibre optics applications. • Describes optical computing, optical gates and their applications with illustrations. • Includes solved numericals at the end of book for better understanding of topics. The papers collected together in this volume constitute a review of recent research on the response of condensed matter to dynamic high pressures and temperatures. Included are sections on equations of state, phase transitions, material properties, explosive behavior, measurement techniques, and optical and laser studies. Recent developments in this area such as studies of impact and penetration phenomenology, the development of materials, especially ceramics and molecular dynamics and Monte Carlo simulations are also covered. These latest advances, in addition to the many other results and topics covered by the authors, serve to make this volume the most authoritative source for the shock wave physics community.