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(FREE SAMPLE) 97 JEE MAIN PHYSICS ONLINE (2021 - 2012) & OFFLINE (2018 - 2002) CHAPTERWISE + TOPICWISE SOLVED PAPERS 5TH EDITION

Disha Publication The book **97 JEE Main Physics Online & Offline Topic-wise Solved Papers** provides the last 20 years **ONLINE(2012-2021) & OFFLINE (2002 - 2018)** papers. • The book contains a total of 97 papers - 18 papers of JEE Main/AIEEE from the year 2002 - 2018 held **OFFLINE** including the AIEEE 2011 Rescheduled paper and 79 JEE Main papers held **ONLINE** from 2012-2021. • The 97 papers are distributed into 29 Chapters exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each Chapter are further divided into 2-4 topics. The Questions are immediately followed by their detailed solutions. • The book constitutes of 3000+ MCQs + 360 Numeric Value Questions with Solutions.

71 JEE MAIN PHYSICS ONLINE (2020 - 2012) & OFFLINE (2018 - 2002) CHAPTERWISE + TOPICWISE SOLVED PAPERS 4TH EDITION

Disha Publications

39 JEE MAIN CHEMISTRY ONLINE (2018-2012) & OFFLINE (2018-2002) CHAPTER-WISE + TOPIC-WISE SOLVED PAPERS 2ND EDITION

Disha Publications • The book **39 JEE Main Chemistry Online & Offline Topic-wise Solved Papers** provides the last 17 years **ONLINE & OFFLINE 2002-18** papers. • The book contains a total of 39 papers - 18 papers of AIEEE/ JEE Main from the year 2002 - 2018 held **OFFLINE** including the AIEEE 2011 **RESCHEDULED** paper and 21 JEE Main papers held **ONLINE** from 2012-18. • The book is distributed into around 30 topics exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each topic are immediately followed by their detailed solutions. The book constitutes around 4720 most important MCQs.

(FREE SAMPLE) 97 JEE MAIN MATHEMATICS ONLINE (2021 - 2012) & OFFLINE (2018 - 2002) CHAPTERWISE + TOPICWISE SOLVED PAPERS 5TH EDITION

Disha Publication The book **97 JEE Main Mathematics Online & Offline Topic-wise Solved Papers** provides the last 20 years **ONLINE(2012-2021) & OFFLINE (2002 - 2018)** papers. • The book contains a total of 97 papers - 18 papers of JEE Main/AIEEE from the year 2002 - 2018 held **OFFLINE** including the 2011 Rescheduled Paper and 79 JEE Main papers held **ONLINE** from 2012-2021. • The 97 Papers are distributed into around 28 Chapters exactly following the chapter sequence of the NCERT books of class 11 and 12. • The questions in each Chapter are further divided into 2-4 topics. The Questions are immediately followed by their detailed solutions. • The book constitutes of 3000+ MCQs + 360 Numeric Value Questions with Solutions.

(FREE SAMPLE) 44 YEARS CHEMISTRY JEE ADVANCED (1978 - 2021) + JEE MAIN CHAPTERWISE & TOPICWISE SOLVED PAPERS 17TH EDITION

Disha Publications • The thoroughly Revised & Updated 17th edition of the book "44 Years CHEMISTRY IIT-JEE Advanced + JEE Main Chapterwise & Topicwise Solved Papers" is an integrated book, which contains Chapterwise & Topicwise collection of past JEE Advanced (including 1978 - 2012 IIT-JEE & 2013 - 21 JEE Advanced) questions from past JEE Main 1978 to 2020 (Offline Papers) and 2013 - 19 (all Online Papers). • The Book is divided into 31 chapters as per NCERT Book. With this new feature this book has become the 1st to adopt NCERT Chapterisation. • Each chapter divides the questions into 2-4 topics which are further divided into 10 categories of questions - Fill in the Blanks, True/ False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer, Numeric Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/ school/ home. The book contains around 4400+ Milestone Problems in Chemistry.

OSWAAL JEE MAIN SOLVED PAPERS (2019 - 2022 ALL SHIFTS 32 PAPERS) + NCERT TEXTBOOK EXEMPLAR CHEMISTRY (SET OF 2 BOOKS) (FOR 2023 EXAM)

Oswaal Books and Learning Private Limited Chapter-wise and Topic-wise presentation Latest JEE (Main) Two Question Paper

2022- Fully solved Chapter-wise & Topic-wise Previous Questions to enable quick revision Previous Years' (2019-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Oswaal QR Codes: Easy to scan QR codes for online concept based content Two SQPs based on the latest pattern Tips to crack JEE (Main) Trend Analysis: Chapter-wise

14 YEARS' IIT JEE SOLVED PAPERS 2020

Arihant Publications India limited IIT JEE Exam is considered one of the toughest entrance exam and lakhs of students apply for this exam, it can be qualified through solid practice, strong and clear concepts in all three subject. With a regular practice from the right kind of solved papers help students to get acquainted with the exam pattern, Type of questions, important topics which enhances the speed and efficiency. The revised edition of Arihant's "14 Years' Solved Papers (2006-2019) IIT JEE (JEE MAIN & ADVANCED)" has facilitated the students who are preparing the for this important entrance examination. It has been consciously revised to help the students by improving their problem solving skills through the questions that are provided in the book. This book provides detailed step-by-step solutions to analytical, theoretical and calculative questions that are being asked in the Physics, Chemistry and Mathematics. It enables the candidates to understand the concept deeply from the very basic level. This book is considered to be best tool for getting success in the upcoming IIT JEE Exam 2020. TABLE OF CONTENT Solved Papers (2006-2019), JEE Main & Advanced 2019, JEE Main & Advanced 2017, JEE Main & Advanced 2016, JEE Main & Advanced 2015, JEE Main & Advanced 2014, JEE Main & Advanced 2013, IIT JEE 2012, IIT JEE 2011, IIT JEE 2010, IIT JEE 2009, IIT JEE 2008, IIT JEE 2007, IIT JEE 2006.

CRASH COURSE JEE(MAIN) / AIEEE - CHEMISTRY

V&S Publishers This book is meant to be a quick refresher for JEE (MAIN)/AIEEE aspirants. With the aim and scope of providing a comprehensive study package for aspirants of JEE (MAIN)/AIEEE, this crash course focuses less on theory and more on concepts, formulae and tips. This is supported by plenty of practice problems based on the latest formats, structure and syllabus of JEE (MAIN)/AIEEE. This is further supplemented by a CD given along with this study kit with fully solved 2012 JEE (MAIN)/AIEEE question paper. Salient features: A Based on the latest pattern and syllabus of JEE (MAIN)/AIEEE A Solved examples, practice problems in each chapter A Previous years question papers fully solved A Less theory and more concepts, formulae and tips A Practice CD with fully solved JEE (MAIN)/AIEEE 2012 question paper A Plenty of problems for practice A Comprehensive, holistic revision of the complete syllabus of JEE (MAIN)/AIEEE A In-depth analysis of the recent trends of JEE (MAIN)/AIEEE A A quick and efficient study kit for JEE (MAIN)/AIEEE aspirants A Facilitates self-study. A Low priced, handy book for quick and efficient revision

EBOOK: HEALTH SYSTEM PERFORMANCE COMPARISON: AN AGENDA FOR POLICY, INFORMATION AND RESEARCH

McGraw-Hill Education (UK) International comparison of health system performance has become increasingly popular, made possible by the rapidly expanding availability of health data. It has become one of the most important levers for prompting health system reform. Yet, as the demand for transparency and accountability in healthcare increases, so too does the need to compare data from different health systems both accurately and meaningfully. This timely and authoritative book offers an important summary of the current developments in health system performance comparison. It summarises the current state of efforts to compare systems, and identifies and explores the practical and conceptual challenges that occur. It discusses data and methodological challenges, as well as broader issues such as the interface between evidence and practice. The book draws out the priorities for future work on performance comparison, in the development of data sources and measurement instruments, analytic methodology, and assessment of evidence on performance. It concludes by presenting the key lessons and future priorities, and in doing so offers a rich source of material for policy-makers, their analytic advisors, international agencies, academics and students of health systems.

PRACTICAL BINARY ANALYSIS

BUILD YOUR OWN LINUX TOOLS FOR BINARY INSTRUMENTATION, ANALYSIS, AND DISASSEMBLY

No Starch Press Stop manually analyzing binary! Practical Binary Analysis is the first book of its kind to present advanced binary analysis topics, such as binary instrumentation, dynamic taint analysis, and symbolic execution, in an accessible way. As malware increasingly obfuscates itself and applies anti-analysis techniques to thwart our analysis, we need more sophisticated methods that allow us to raise that dark curtain designed to keep us out--binary analysis can help. The goal of all binary analysis is to determine (and possibly modify) the true properties of binary programs to understand what they really do, rather than what we think they should do. While reverse engineering and disassembly are critical first steps in many forms of binary analysis, there is much more to be learned. This hands-on guide teaches you how to tackle the fascinating but challenging topics of binary analysis and instrumentation and helps you become proficient in an area typically only mastered by a small group of expert hackers. It will take you from basic concepts to state-of-the-art methods as you dig into topics like code injection, disassembly, dynamic taint analysis, and binary instrumentation. Written for security engineers, hackers, and those with a basic working knowledge of C/C++ and x86-64, Practical Binary Analysis will teach you in-depth how binary programs work and help you acquire the tools and techniques needed to gain more control and insight into binary programs. Once you've completed an introduction to basic binary formats, you'll learn how to analyze binaries using techniques like the GNU/Linux binary analysis

toolchain, disassembly, and code injection. You'll then go on to implement profiling tools with Pin and learn how to build your own dynamic taint analysis tools with libdft and symbolic execution tools using Triton. You'll learn how to: - Parse ELF and PE binaries and build a binary loader with libbfd - Use data-flow analysis techniques like program tracing, slicing, and reaching definitions analysis to reason about runtime flow of your programs - Modify ELF binaries with techniques like parasitic code injection and hex editing - Build custom disassembly tools with Capstone - Use binary instrumentation to circumvent anti-analysis tricks commonly used by malware - Apply taint analysis to detect control hijacking and data leak attacks - Use symbolic execution to build automatic exploitation tools With exercises at the end of each chapter to help solidify your skills, you'll go from understanding basic assembly to performing some of the most sophisticated binary analysis and instrumentation. Practical Binary Analysis gives you what you need to work effectively with binary programs and transform your knowledge from basic understanding to expert-level proficiency.

HEALTH INFORMATION SYSTEMS AND THE ADVANCEMENT OF MEDICAL PRACTICE IN DEVELOPING COUNTRIES

[IGI Global](#) The continuous development of new technologies has led to significant socio-economic advances in modern society. When applied in the medical sector, healthcare delivery techniques are optimized. Health Information Systems and the Advancement of Medical Practice in Developing Countries is a comprehensive reference source for the latest scholarly research on technology utilization for delivering reliable and accurate health information to patients and clinical staff. Highlighting pivotal perspectives on topics such as mobile health, telemedicine, and healthcare access, this book is ideally designed for professionals, practitioners, researchers, academics, and graduate students interested in the benefits and challenges of technology applications in healthcare systems.

MRCs PRACTICE PAPERS PART A

PAPER 1 SBAS

[PasTest Ltd](#) Helps candidates pass the MRCs Part A exam. This book includes four practice papers, featuring over 120 Best of Five questions, mirroring the format of the exam.

INNOVATIVE PRACTICES FOR HIGHER EDUCATION ASSESSMENT AND MEASUREMENT

[IGI Global](#) Both educators and their students are involved in the process of assessment - all parties are expected to meet and exceed expectations in the face of competing conditions. New practices are being developed to enhance students' participation, especially in their own assessment, be it through peer-review, reflective assessment, the introduction of new technologies, or other novel solutions. Though widely researched, few have measured these innovations' effectiveness in terms of satisfaction, perceived learning, or performance improvements. Innovative Practices for Higher Education Assessment and Measurement bridges the gap between political discourse, theoretical approach, and teaching practices in terms of assessment in higher education. Bringing new insights and presenting novel strategies, this publication brings forth a new perception of the importance of assessment and offers a set of successful, innovative practices. This book is ideal for educators, administrators, policy makers, and students of education.

(FREE SAMPLE) 44 YEARS PHYSICS JEE ADVANCED (1978 - 2021) + JEE MAIN CHAPTERWISE & TOPICWISE SOLVED PAPERS 17TH EDITION

[Disha Publications](#)

IIT JEE PHYSICS (1978 TO 2018: 41 YEARS) TOPIC-WISE COMPLETE SOLUTIONS

[PsiPhiETC](#) "Bring conceptual clarity and develop the skills to approach any unseen problem, step by step." - HC Verma "Great Book to read and understand! Quality explanations and methodical approach separates this book from the rest. A clear winner in its category." -Review on Amazon "Must have book for every IIT JEE aspirant! There are many solution books available in the market but this book is a class apart. Solutions are explained in detail. In many questions there are extra points which are beneficial for aspirants." - Review on Amazon Written by IITians, foreword by Dr HC Verma and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41 years IIT questions and their illustrated solutions for any serious aspirant. The success of this work lies in making the readers capable to solve complex problems using few basic principles. The readers are also asked to attempt variations of the solved problems to help them understand the concepts better. The students can use the book as a readily available mentor for providing hints or complete solutions as per their needs. Key features of the book are: - Concept building by problem solving. The solutions reveals all the critical points. - 1400+ solved problems from IIT JEE. The book contains all questions and their solutions. - Topic-wise content arrangement to enables IIT preparation with school education. - Promotes self learning. Can be used as a readily available mentor for solutions.

43 YEARS JEE ADVANCED (1978 - 2020) + JEE MAIN CHAPTERWISE & TOPICWISE SOLVED PAPERS PHYSICS 16TH EDITION

[Disha Publications](#)

HIGHER ALGEBRA

[Arihant Publications India limited](#) The Classic Texts Series is the only of its kind selection of classic pieces of work that

started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams. The present book on Higher Algebra presents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinomial Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergence & Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability, Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book. As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

B. ARCH/NATA/JEE (MAIN) OFFLINE DRAWING TEST

Ramesh Publishing House This immensely valuable book of Previous Years' Solved and Unsolved Papers of Offline Drawing Test is specially published for the aspirants of NATA/JEE (Main Paper II) for admission to B.Arch Course. The book comprises numerous questions in several Solved Previous Years' Solved and Unsolved Papers which will prove extremely useful for you to be well acquainted with the current exam pattern, the type of questions asked, and their appropriate answers. Detailed Explanatory Answers have also been provided for selected questions for your Better Understanding along with Self Practice Sketches. The book will serve well both as practice material & a true test of your studies and preparation with actual exam questions. The book is highly recommended to improve your problem solving skills, speed and accuracy, and help you prepare well by practising through these papers' to face the exam with Confidence Successfully. While this exhaustive practice material in the form of Previous Years' Papers is published with the sole aim of Paving the Way to your Success, your own intelligent practice, in Harmony with this, will definitely ensure you a Seat in the Prestigious Course leading you to a Magnificent Career in Architecture.

LANGUAGE ASSESSMENT LITERACY

FROM THEORY TO PRACTICE

Cambridge Scholars Publishing The field of language testing and assessment has recognized the importance and underlying theoretical and practical underpinnings of language assessment literacy (LAL), an area that is gradually coming to prominence. This book addresses issues that promote the concept of LAL for language research, teaching, and learning, covering a range of topics. It brings together 14 chapters based on high-stakes and classroom-based studies authored by academics, professionals and researchers in the field. The text examines diverse issues through a multifaceted approach, presenting high-quality contributions that fill a gap in a research area that has long been in need of theoretical and empirical attention.

GLOBALIZATION

Greenhaven Publishing LLC The advancement of transportation and communication technology has facilitated greater interaction between people throughout the world, a process known as globalization. Because of its various economic, social, cultural, and environmental implications, attitudes toward globalization are ambivalent. There are concerns about the exploitation of people and resources from less economically stable countries and the destruction of cultural traditions, but at the same time it has allowed the world to open up for people on an international scale. It is important to weigh the many costs and benefits of this complicated issue to form a reasoned response, which this book adeptly supports.

EMERGING DIGITAL FORENSICS APPLICATIONS FOR CRIME DETECTION, PREVENTION, AND SECURITY

IGI Global The revolutionary way in which modern technologies have enabled us to exchange information with ease has led to the emergence of interdisciplinary research in digital forensics and investigations, which aims to combat the abuses of computer technologies. Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security presents various digital crime and forensic disciplines that use electronic devices and software for crime prevention and detection. This book provides theoretical and empirical research articles and case studies for a broad range of academic readers as well as professionals, industry consultants, and practitioners involved in the use, design,

and development of techniques related to digital forensics and investigation.

PHARMACY WORKFORCE SUPPORT PERSONNEL

MDPI This book provides research and commentary on pharmacy technicians. It demonstrates how the re-design of pharmacy workflow to incorporate more responsibilities for technicians will free up pharmacist time to provide direct patient care. It also highlights that doing so can be accomplished without compromising—and often even improving upon—patient safety. The book also sheds light on employer needs and on new paradigms in pharmacy technician certification, education, and training. However, it also demonstrates the need for improvements in this area, as well as improvements in pharmacy technician quality of work life, advancement opportunities, and wages. Taken together, the papers in this book demonstrate how the results of recent studies help pave the road for the continued evolution of pharmacy care and the optimal deployment of pharmacy workforce personnel.

HANDBOOK OF RESEARCH ON RECENT DEVELOPMENTS IN MATERIALS SCIENCE AND CORROSION ENGINEERING EDUCATION

IGI Global The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

MATERIALS SCIENCE AND ENGINEERING: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

NMMS EXAM GUIDE FOR (8TH) CLASS VIII

Ramesh Publishing House This comprehensive book is specially developed for the candidates of National Means Cum Merit Scholarship Exam (For Class VIII). This book includes Study Material & Previous Papers for the purpose of practice of questions based on the latest pattern of the examination. Detailed Explanatory Answers have also been provided for the selected questions for Better Understanding of the Candidates

OBJECTIVE MATHEMATICS

Salient Features As Per The Latest Syllabus Of Engineering Entrance Examinations Previous Years Questions Of Various Entrance Examinations Every Unit Contains (I) Main Highlights (Ii) Multiple Choice Questions (Iii) Fill In The Blanks (Iv) True And False Statements

TARGET JEE MAIN 2020 (2002 - 2019 SOLVED PAPERS + 10 MOCK TESTS) 20TH EDITION

Disha Publications TARGET JEE Main 2020 helps in Understanding the Test, Exam Pattern, Solving Past Questions & Practicing Mock Test to Revise all important concepts necessary to crack the JEE Main exam. The book provides all the Past (20) & Mock (10) papers with their detailed solutions. The book consists of : • Previous Year papers of AIEEE (2002 to 2012) & JEE Main 2013 - 2019; • The book includes the 1 paper each of 2019 Ph I & II. • The book also includes the rescheduled paper of 2011. Thus, in all, 20 Past papers are provided in the book. • The book also includes 10 Mock tests for JEE Main along with detailed solutions. Mastery over this book will definitely improve your Score by 15%.

ENCYCLOPEDIA OF PHARMACY PRACTICE AND CLINICAL PHARMACY

Academic Press Encyclopedia of Pharmacy Practice and Clinical Pharmacy covers definitions, concepts, methods, theories and applications of clinical pharmacy and pharmacy practice. It highlights why and how this field has a significant impact on healthcare. The work brings baseline knowledge, along with the latest, most cutting-edge research. In addition, new treatments, algorithms, standard treatment guidelines, and pharmacotherapies regarding diseases and disorders are also covered. The book's main focus lies on the pharmacy practice side, covering pharmacy practice research, pharmacovigilance, pharmacoconomics, social and administrative pharmacy, public health pharmacy, pharmaceutical systems research, the future of pharmacy, and new interventional models of pharmaceutical care. By providing concise expositions on a broad range of topics, this book is an excellent resource for those seeking information beyond their specific areas of expertise. This outstanding reference is essential for anyone involved in the

study of pharmacy practice. Provides a 'one-stop' resource for access to information written by world-leading scholars in the field Meticulously organized, with articles split into three clear sections, it is the ideal resource for students, researchers and professionals to find relevant information Contains concise and accessible chapters that are ideal as an authoritative introduction for non-specialists and readers from the undergraduate level upwards Includes multimedia options, such as hyperlinked references and further readings, cross-references and videos

2012 CATALOG OF FEDERAL DOMESTIC ASSISTANCE

ONLINE EDUCATION USING LEARNING OBJECTS

Routledge 'E-learning is integral to on-site education institutions worldwide, and the rapid explosion of interest in the subject means that this timely, cutting-edge book will be an instant and indispensable resource. Among educators, the development of reusable learning objects made accessible via the internet is ever more important to teaching and learning. This book provides a comprehensive look at a state-of-the-art online education, and presents advice on the creation, adaptation and implementation of learning objects and metadata. Including articles written by some of the leading innovators in the field, this book takes the reader through: designing effective learning objects; creating learning objects; transforming existing content into reusable learning objects; building a metadata management system. This book will be essential reference material for learning technologists, course developers at learning institutions, postgraduate students, teachers and learners in the field of e-learning.'

COGNITION, METACOGNITION, AND CULTURE IN STEM EDUCATION

LEARNING, TEACHING AND ASSESSMENT

Springer This book addresses the point of intersection between cognition, metacognition, and culture in learning and teaching Science, Technology, Engineering, and Mathematics (STEM). We explore theoretical background and cutting-edge research about how various forms of cognitive and metacognitive instruction may enhance learning and thinking in STEM classrooms from K-12 to university and in different cultures and countries. Over the past several years, STEM education research has witnessed rapid growth, attracting considerable interest among scholars and educators. The book provides an updated collection of studies about cognition, metacognition and culture in the four STEM domains. The field of research, cognition and metacognition in STEM education still suffers from ambiguity in meanings of key concepts that various researchers use. This book is organized according to a unique manner: Each chapter features one of the four STEM domains and one of the three themes—cognition, metacognition, and culture—and defines key concepts. This matrix-type organization opens a new path to knowledge in STEM education and facilitates its understanding. The discussion at the end of the book integrates these definitions for analyzing and mapping the STEM education research. Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

14 YEARS SOLVED PAPERS NEET 2022

Arihant Publications India limited 1. 14 Years' Solved Papers is collection of previous years solved papers of NEET 2. This book covers all CBSE AIPMT and NTA NEET papers 3. Chapterwise and Unitwise approach to analysis questions 4. Each question is well detailed answered to understand the concept as whole 5. Online access to CBSE AIPMT SOLVED PAPER (Screening + Mains) 2008 When preparing for an examination like NEET, the pattern and the question asked in the examination are always intriguing for aspirants. This is where Solved Papers play their major role in helping students to cope up with the attempting criteria of the exam. Presenting the "14 Years' Solved Papers [2021 - 2008]" that has been designed with a structured approach as per the latest NEET Syllabus requirement. As the title of the book suggests, it contains ample previous year's papers, which help to identify and self-analyze the preparation level for the exam. Enriched with problem solving tools, this book serves a one stop solution for all 3 subjects; Physics, Chemistry and Biology. Well detailed answers are given for all questions that provide deep conceptual understanding of the problems. This book can be treated as a sufficient tool for learning, active answering style and time management skills. TOC NEET Solved Paper 2021, NEET Solved Paper 2020 (Oct.), NEET Solved Paper 2020 (Sep.), NEET National Paper 2019, NEET Odisha Paper 2021, NEET Solved Paper 2018, NEET Solved Paper 2017, NEET Solved Paper 2016(Phase II), NEET Solved Paper 2016 (Phase - I), CBSE AIPMT 2015 (Cancelled - May), CBSE AIPMT 2015 (Latest - May), CBSE AIPMT 2015 (Latest - July), CBSE AIPMT Solved Paper 2014, NEET Solved Paper 2013, CBSE AIPMT 2012 (Screening + Mains), CBSE AIPMT 2011 (Screening + Mains), CBSE AIPMT 2010 (Screening + Mains).

ADVANCED DIGITAL ARCHITECTURES FOR MODEL-DRIVEN ADAPTIVE ENTERPRISES

IGI Global The five digital forces (mobility and pervasive computing, cloud, big data, artificial intelligence and robotics, and social media) are poised to bring great academic and industrial breakthroughs. All stakeholders want to understand how to best harness these forces to their advantage. While literature exists for understanding each force independently, there is a lack of knowledge on how to utilize all the forces together to realize future enterprises. Advanced Digital Architectures for Model-Driven Adaptive Enterprises is an essential reference source that explores the potential in unifying the five digital forces to achieve increased levels of agility, efficiency, and scale. Featuring coverage on a wide range of topics including socio-technical systems, adaptive architectures, and enterprise modeling, this book is ideally designed for managers, executives, programmers, designers, computer engineers, entrepreneurs, tool builders, digital practitioners, researchers, academicians, and students at the graduate level.

PLANE TRIGONOMETRY

SHAKING THE FOUNDATIONS OF GEO-ENGINEERING EDUCATION

CRC Press This book comprises the proceedings of the international conference Shaking the Foundations of Geo-engineering Education (NUI Galway, Ireland, 4-6 July 2012), a major initiative of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee (TC306) on Geo-engineering Education. SFGE 2012 has been carefully

FACING FORWARD

SCHOOLING FOR LEARNING IN AFRICA

World Bank Publications While everybody recognizes the development challenges facing Sub-Saharan Africa, few have put together coherent plans that offer real hope for any feasible and general improvement. Facing Forward combines an evidence-based plan that not only recognizes the deep problems but provides specific prescriptions for dealing with the problems. In the simplest version, focus on the skills of the people and do it in a rational and achievable manner. †“ Eric Hanushek, Paul and Jean Hanna Senior Fellow, Hoover Institute, Stanford University This book offers a clear perspective on how to improve learning in basic education in Sub-Saharan Africa, based on extremely rigorous and exhaustive analysis of a large volume of data. The authors shine a light on the low levels of learning and on the contributory factors. They have not hesitated to raise difficult issues, such as the need to implement a consistent policy on the language of instruction, which is essential to ensuring the foundations of learning for all children. Using the framework of “From Science to Service Delivery,† the book urges policy makers to look at the entire chain from policy design, informed by knowledge adapted to the local context, to implementation. Facing Forward: Schooling for Learning in Africa is a unique addition to the literature that is relevant for African policy makers and stakeholders. †“ Professor Hassana Alidou, Ambassador of the Republic of Niger to the United States and Canada As the continent gears itself up to provide universal basic education to all its children by 2030, it has to squarely address the challenge of how to improve learning. Facing Forward helps countries to benchmark themselves against each other and to identify concrete lines of action. It forces policy makers to think “where do I go from here?† “what do I do differently?† and to examine the hierarchy of interventions that can boost learning. It rightly urges Ministries of Education to build capacity through learning by doing and continuous adaptation of new knowledge to the local context. Facing Forward will unleash frank conversations about the profound reforms that are required in education policy and service delivery to ensure learning for every child on the continent. †“ Dr. Fred Matiang’i, Cabinet Secretary for the Interior and Coordination of National Government, Government of Kenya (former Cabinet Secretary for Education) Facing Forward couldn’t have come at a more opportune time as countries in the region, including Mauritius, focus more on learning outcomes rather than simply on inputs and processes in education systems. The book underscores the important point that African countries need not exclusively model themselves on high-performing education systems in the world. Much can as well be learnt from other countries at the same level of development, or lower, by virtue of the challenges they have faced and successfully overcome. This presents opportunities for greater peer-sharing and networking with these countries. Indeed a number of key focus areas are highlighted in the book that demonstrate good practices worthy of being emulated. These cover domains as diverse as enabling factors leading to improved student progression, strengthened teacher capacity, increased budgetary allocation with a focus on quality, as well as improved technical capacity of implementing agencies in the region. †“ Hon. (Mrs.) Leela Devi Dookun-Luchoomun, Minister of Education and Human Resources, Tertiary Education and Scientific Research, Republic of Mauritius

EXPERIENTIAL EXERCISES IN THE CLASSROOM

Edward Elgar Publishing The definitive guide to creating and using experiential exercises in the classroom. For anyone interested in continuously improving their teaching practice, this book provides an overview of the theory and empirical evidence for active learning and the use of experiential exercises. Using a prescriptive model and checklist for creating, adapting or adopting experiential exercises in the classroom, the authors demonstrate evidence-based best practices for each step in the development and use of experiential exercises, including tips, worksheets and checklists to facilitate use of these practices.

COLLECTING, MANAGING, AND ASSESSING DATA USING SAMPLE SURVEYS

Cambridge University Press Collecting, Managing, and Assessing Data Using Sample Surveys provides a thorough, step-by-step guide to the design and implementation of surveys. Beginning with a primer on basic statistics, the first half of the book takes readers on a comprehensive tour through the basics of survey design. Topics covered include the ethics of surveys, the design of survey procedures, the design of the survey instrument, how to write questions and how to draw representative samples. Having shown readers how to design surveys, the second half of the book discusses a number of issues surrounding their implementation, including repetitive surveys, the economics of surveys, web-based surveys, coding and data entry, data expansion and weighting, the issue of non-response, and the documenting and archiving of survey data. The book is an excellent introduction to the use of surveys for graduate students as well as a useful reference work for scholars and professionals.

42 YEARS (1978-2019) JEE ADVANCED (IIT-JEE) + 18 YRS JEE MAIN (2002-2019) TOPIC-WISE SOLVED PAPER

MATHEMATICS 15TH EDITION

Disha Publications • The book “42 Years IIT-JEE Advanced + 18 yrs JEE Main Topic-wise Solved Paper MATHEMATICS” is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-19 JEE Advanced) questions from 1978 to 2019 and past JEE Main (including 2002-2012 AIEEE & 2013-19 JEE Main) questions from 2002 to 2019. • The book provides 2 Sets of JEE Main 2019 (1 of each of the 2 Phases) & Paper 1 & 2 of JEE ADvanced 2019. • The book is divided into 22 chapters. The flow of chapters has been aligned as per the NCERT books. • Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3380+ MILESTONE PROBLEMS IN Mathematics.

A PLAN THAT ACTUALLY WORKS

HANDBOOK FOR THE INDIAN TEENAGER TO EXCEL AT JEE

Notion Press Written by a former All India Topper, this book has been touted by several iconic IITians as the most effective book on JEE planning ever written! Anagh argues that most IITians are neither born-geniuses nor unusually intense work-machines; they are smart planners instead. He takes you behind-the-scenes to reveal how smart planning works for JEE and lays out a clear framework for goal-oriented thinking. The step by step approach outlined across 11 chapters covers everything from daily routine to efficient practice to long term motivation, all explained through real life examples and presented with time-tested proofs. It talks about achieving one's goals while not missing out on a balanced life and questions people's deepest beliefs about achieving a large and meaningful goal like IIT-JEE. After finishing the book, readers will take away not just a concrete plan to prepare for JEE, but in the words of an early reviewer, a "life-altering" change in perspective towards success. “Edifying and thought-provoking! Reading this book will help you succeed not only in JEE but also in life.” - Chitraang Murdia, AIR-1 in JEE Adv, 2014 “Covers a lot of important topics and explains goal setting well” - Aman Bansal, AIR-1 in JEE Adv, 2016 “Develops a holistic strategy to ace the JEE” - Ananye Agarwal, AIR-3 in JEE Adv, 2017 “Informative and Inspirational! It unravels the inner workings of a topper’s mind” - Amey Gupta, AIR-8 in JEE Adv, 2014 “It will enable students to follow tested winning strategies rather than reinvent the wheel” - Kartikeya Gupta, AIR-4 in JEE Adv, 2013 “It iterates on the timeless wisdom of BhagvadGita to excel not only in JEE but any goal in life” - Vishwajeet Agarwal, AIR-5 in JEE Main, 2017. More about the book can be found out at www.thejeeproject.com