

Assignment Ocw Mit

Signals & Systems Pearson Educación

"This is an excellent resource, highly recommended for new and seasoned educators at every level."

--Nursing Education Perspectives Health information technology is now the top priority for improving nursing and health care by informing clinical care, interconnecting clinicians, personalizing care, and improving population health at large. This book presents a broad range of cutting-edge teaching technologies and a detailed overview of teaching

Read Book Assignment Ocw Mit

and learning pedagogical concepts that are relevant across a variety of teaching environments. Helpful to both new and seasoned educators, these "must-know" strategies allow faculty to keep pace with the rapidly changing digital world. The book helps to guide faculty in making thoughtful, informed decisions on how and where to integrate technology into learning environments. A major feature of this book is the Integrated Learning Triangle for Teaching with Technologies, a faculty tool to help determine if and how specific technologies can promote student learning. Other important chapter

Read Book Assignment Ocw Mit

pedagogy includes best teaching practices, teaching and learning self-assessment tools, useful tips for faculty such as "making teaching easier," and reflective questions and activities for the reader. Key Topics: Using cutting-edge technologies as tools for "active learning," such as automated response systems, clickers, podcasts, blogs, wikis, web-based modules, and more Expanding faculty and student technology skills and information literacy-a critical competency in all nursing programs Using the Internet and digital videos to help bridge the classroom with the clinical setting Reflecting on how

Read Book Assignment Ocw Mit

technology impacts current communication systems
Incorporating simulation into students' clinical
learning experiences Promoting self-directed,
lifelong learning through health information
technology

"Provides a unified, insightful, modern, and
entertaining treatment of analytics. The book covers
the science of using data to build models, improve
decisions, and ultimately add value to institutions
and individuals"--Back cover.

Linear algebra is something all mathematics
undergraduates and many other students, in

Read Book Assignment Ocw Mit

subjects ranging from engineering to economics, have to learn. The fifth edition of this hugely successful textbook retains all the qualities of earlier editions while at the same time seeing numerous minor improvements and major additions. The latter include:

- A new chapter on singular values and singular vectors, including ways to analyze a matrix of data
- A revised chapter on computing in linear algebra, with professional-level algorithms and code that can be downloaded for a variety of languages
- A new section on linear algebra and cryptography
- A new chapter on linear algebra in probability and

Read Book Assignment Ocw Mit

statistics. A dedicated and active website also offers solutions to exercises as well as new exercises from many different sources (e.g. practice problems, exams, development of textbook examples), plus codes in MATLAB, Julia, and Python.

Principles of Computer System Design
With Application to Understanding Data

Introduction to Quantum Mechanics

Statistical Physics of Particles

Ultralearning

Teaching Technologies in Nursing & the Health
Professions

Read Book Assignment Ocw Mit

Statistical physics has its origins in attempts to describe the thermal properties of matter in terms of its constituent particles, and has played a fundamental role in the development of quantum mechanics. Based on lectures taught by Professor Kardar at MIT, this textbook introduces the central concepts and tools of statistical physics. It contains a chapter on probability and related issues such as the central limit theorem and information theory, and covers interacting particles, with an extensive description of the van der Waals equation and its derivation by mean field approximation. It also contains an integrated set of problems, with solutions to selected problems at the end of the book and a complete set of solutions is available to lecturers on a password

Read Book Assignment Ocw Mit

protected website at www.cambridge.org/9780521873420. A companion volume, *Statistical Physics of Fields*, discusses non-mean field aspects of scaling and critical phenomena, through the perspective of renormalization group.

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of

Read Book Assignment Ocw Mit

large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Read Book Assignment Ocw Mit

The most comprehensive and authoritative text on the subject, DISTANCE EDUCATION, Third Edition, retains its emphasis on a systems approach to the organization and selection of material. The text is researched-based and grounded in solid principles of teaching and learning. The authors apply their broad experience and expertise as they explain how to design and teach courses online--including the latest technologies employed, characteristics of learners, organizational structures, and current policy and global perspectives. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Very roughly speaking, representation theory studies

Read Book Assignment Ocw Mit

symmetry in linear spaces. It is a beautiful mathematical subject which has many applications, ranging from number theory and combinatorics to geometry, probability theory, quantum mechanics, and quantum field theory. The goal of this book is to give a ``holistic'' introduction to representation theory, presenting it as a unified subject which studies representations of associative algebras and treating the representation theories of groups, Lie algebras, and quivers as special cases. Using this approach, the book covers a number of standard topics in the representation theories of these structures. Theoretical material in the book is supplemented by many problems and exercises which touch upon a lot of additional topics; the more difficult

Read Book Assignment Ocw Mit

exercises are provided with hints. The book is designed as a textbook for advanced undergraduate and beginning graduate students. It should be accessible to students with a strong background in linear algebra and a basic knowledge of abstract algebra.

Introduction to the Theory of Computation

Fatigue of Materials

Signals & Systems

Systems Thinking Applied to Safety

Global Marketing Management System

The Art of Performing Sound for Film, Games, and Animation

Master classic and cutting-edge Foley

Read Book Assignment Ocw Mit

techniques that will allow you to create rich, convincing sound for any medium, be it film, television, radio, podcasts, animation, or games. In *The Foley Grail, Second Edition* award-winning Foley artist Vanessa Theme Ament teaches you how Foley is designed, crafted, and edited for any project, right down to the nuts and bolts of spotting, cueing, and performing sounds. Various renowned sound artists provide a treasure trove

Read Book Assignment Ocw Mit

of shortcuts, hot tips, and other tricks of the trade. This new edition features: Entirely new chapters dedicated to Foley in games, television, broadcasting, and animation, as well as what is new in sound for media education All new sound "recipes" that include proven Foley methods you can immediately use on your own projects New case studies from well-known films, shows, games, and animations Interviews with current

Read Book Assignment Ocw Mit

sound artists from across the globe An extensive companion website (www.focalpress.com/cw/ament) featuring video demonstrations of Foley artists at work, video tutorials of specific Foley techniques, lectures from the author, and much more

Statistical Physics I discusses the fundamentals of equilibrium statistical mechanics, focussing on basic physical aspects. No previous knowledge of thermodynamics or the molecular theory

Read Book Assignment Ocw Mit

of gases is assumed. Illustrative examples based on simple materials and photon systems elucidate the central ideas and methods.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory;

Read Book Assignment Ocw Mit

integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability.

Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

This book provides readers with an introductory resource for learning how to create compelling games using the

Read Book Assignment Ocw Mit

open source Python programming language and Pygame games development library. Authored by industry veteran and Python expert Will McGugan, readers are treated to a comprehensive, practical introduction to games development using these popular technologies. They can also capitalize upon numerous tips and tricks the author has accumulated over his career creating games for some of the world's largest gaming developers. Automate the Boring Stuff with Python,

Read Book Assignment Ocw Mit

2nd Edition

How Technology is Transforming Academic Practice

Languages for Specific Purposes in History

Training Cognition

From Novice to Professional

Introduction to Probability

1. Introduction 2. Syntax 3.

Operational semantics 4. Denotational semantics 5. Fixed points 6. FL: a functional language 7. Naming 8. State

Read Book Assignment Ocw Mit

9. Control 10. Data 11. Simple types
12. Polymorphism and higher-order types
13. Type reconstruction 14. Abstract
types 15. Modules 16. Effects describe
program behavior 17. Compilation 18.
Garbage collection.

Learn a new talent, stay relevant,
reinvent yourself, and adapt to
whatever the workplace throws your way.
Ultralearning offers nine principles to
master hard skills quickly. This is the
essential guide to future-proof your

Read Book Assignment Ocw Mit

career and maximize your competitive advantage through self-education. In these tumultuous times of economic and technological change, staying ahead depends on continual self-education—a lifelong mastery of fresh ideas, subjects, and skills. If you want to accomplish more and stand apart from everyone else, you need to become an ultralearner. The challenge of learning new skills is that you think you already know how best to learn, as you

Read Book Assignment Ocw Mit

did as a student, so you rerun old routines and old ways of solving problems. To counter that, Ultralearning offers powerful strategies to break you out of those mental ruts and introduces new training methods to help you push through to higher levels of retention. Scott H. Young incorporates the latest research about the most effective learning methods and the stories of other ultralearners like himself—among them

Read Book Assignment Ocw Mit

Benjamin Franklin, chess grandmaster Judit Polgár, and Nobel laureate physicist Richard Feynman, as well as a host of others, such as little-known modern polymath Nigel Richards, who won the French World Scrabble Championship—without knowing French. Young documents the methods he and others have used to acquire knowledge and shows that, far from being an obscure skill limited to aggressive autodidacts, ultralearning is a

Read Book Assignment Ocw Mit

powerful tool anyone can use to improve their career, studies, and life.

Ultralearning explores this fascinating subculture, shares a proven framework for a successful ultralearning project, and offers insights into how you can organize and execute a plan to learn anything deeply and quickly, without teachers or budget-busting tuition costs. Whether the goal is to be fluent in a language (or ten languages), earn the equivalent of a college degree in a

Read Book Assignment Ocw Mit

fraction of the time, or master multiple tools to build a product or business from the ground up, the principles in Ultralearning will guide you to success.

This book delves into the changes in technology regarding higher education and seeks to define what it means to be a scholar in the digital age.

Now you can clearly present even the most complex computational theory topics to your students with Sipser's

Read Book Assignment Ocw Mit

distinct, market-leading INTRODUCTION TO THE THEORY OF COMPUTATION, 3E. The number one choice for today's computational theory course, this highly anticipated revision retains the unmatched clarity and thorough coverage that make it a leading text for upper-level undergraduate and introductory graduate students. This edition continues author Michael Sipser's well-known, approachable style with timely revisions, additional exercises, and

Read Book Assignment Ocw Mit

more memorable examples in key areas. A new first-of-its-kind theoretical treatment of deterministic context-free languages is ideal for a better understanding of parsing and LR(k) grammars. This edition's refined presentation ensures a trusted accuracy and clarity that make the challenging study of computational theory accessible and intuitive to students while maintaining the subject's rigor and formalism. Readers gain a solid

Read Book Assignment Ocw Mit

understanding of the fundamental mathematical properties of computer hardware, software, and applications with a blend of practical and philosophical coverage and mathematical treatments, including advanced theorems and proofs. INTRODUCTION TO THE THEORY OF COMPUTATION, 3E's comprehensive coverage makes this an ideal ongoing reference tool for those studying theoretical computing. Important Notice: Media content referenced within

Read Book Assignment Ocw Mit

the product description or the product text may not be available in the ebook version.

Master Hard Skills, Outsmart the Competition, and Accelerate Your Career

Introduction to Computation and Programming Using Python, second edition

Statistical Physics I

Foundations of Analog and Digital

Electronic Circuits

Introduction to Representation Theory

Read Book Assignment Ocw Mit

A Common Sense Guide

The essays in this edited collection reflect on the nature of open education resources, where the question on openness for education emerges. Training is both a teaching and a learning experience, and just about everyone has had that experience. Training involves acquiring knowledge and skills. This newly acquired training information is meant to be applicable to specific activities, tasks, and jobs. In modern times, where jobs are increasingly more complex, training workers to perform successfully is of more importance than ever. The range of contexts in which training is required includes industrial, corporate,

Read Book Assignment Ocw Mit

military, artistic, and sporting, at all levels from assembly line to executive function. The required training can take place in a variety of ways and settings, including the classroom, the laboratory, the studio, the playing field, and the work environment itself. The general goal of this book is to describe the current state of research on training using cognitive psychology to build a complete empirical and theoretical picture of the training process. The book focuses on training cognition, as opposed to physical or fitness training. It attempts to show how to optimize training efficiency, durability, and generalizability. The book includes a review of relevant cognitive

Read Book Assignment Ocw Mit

psychological literature, a summary of recent laboratory experiments, a presentation of original theoretical ideas, and a discussion of possible applications to real-world training settings.

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if

Read Book Assignment Ocw Mit

you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus

Read Book Assignment Ocw Mit

tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to:

- Search for text in a file or across multiple files*
- Create, update, move, and rename files and folders*
- Search the Web and download online content*
- Update and format data in Excel spreadsheets of any size*
- Split, merge, watermark, and encrypt PDFs*
- Send email responses and text notifications*
- Fill out online forms*

Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend

Read Book Assignment Ocw Mit

your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition. An assessment of human thought and behavior explores conundrums from the mind's ability to perceive three dimensions to the nature of consciousness, in an account that draws on beliefs in cognitive science and evolutionary biology. Open Education and Education for Openness Introduction to Probability and Statistics Mathematics for Computer Science The Foley Grail

Read Book Assignment Ocw Mit

The Digital Scholar

Data Structures And Algorithms

When science's "black boxes" are pried open, its workings become accessible. Like time-travellers into history but grounded in today's cultures, learners interact directly with authentic instruments and replicas. Chapters describe educational experiences sparked through collaborations interrelating museum, school and university.

New edition of a text intended primarily for the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental

Read Book Assignment Ocw Mit

importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences. Discussion of applications is emphasized, and numerous worked examples are included. Annotation copyrighted by Book News, Inc., Portland, OR

This bestselling textbook teaches students how to do quantum mechanics and provides an insightful discussion of what it actually means.

Linear algebra and the foundations of deep learning, together at last! From Professor Gilbert Strang, acclaimed

Read Book Assignment Ocw Mit

author of Introduction to Linear Algebra, comes Linear Algebra and Learning from Data, the first textbook that teaches linear algebra together with deep learning and neural nets. This readable yet rigorous textbook contains a complete course in the linear algebra and related mathematics that students need to know to get to grips with learning from data. Included are: the four fundamental subspaces, singular value decompositions, special matrices, large matrix computation techniques, compressed sensing, probability and statistics, optimization, the architecture of neural nets, stochastic gradient descent and backpropagation.

Read Book Assignment Ocw Mit

Selected Papers from the International Workshop on
Computational Sciences and Its Education, Beijing,
China, 29-31 August 2005

Recent Advances in Computational Sciences

A Subject Guide to Quality Web Sites

Optimizing Efficiency, Durability, and Generalizability

Introduction to Linear Algebra

Principles of Digital Communication

**This is the second edition of the Global
Marketing Management System (GMMS). The
GMMS approach (GMMS book + GMMSO4
software) provides a rigorous theoretical base**

and a comprehensive, systematic and integrative planning process designed to guide students and managers alike through the decision-making process of a company seeking global market opportunities. The book aims to provide a structure, platform, tools and a systematic step-by-step process designed to support the creation of a strategic and applied oriented methodology to global business planning and strategy formulation. It introduces the GMMS process as a demonstration of a successful application

of using web-based tools in teaching international business. The book also facilitates the ability of students to enhance their understanding of decision making in international management and bridge the gap between theory and practice. More about

GMMSO GMMSO4 Student User Guide (2 MB)

What is GMMS? For Professors (2 MB)

What is GMMS? For Consultants and SMEs (2 MB)

Contents: The Global Marketing Management System: Introduction: Globalization and the Need for a Global Business Education Project-

**based Learning and GMMSO Understanding
the Firm's Strategic Position: Information
Scanning Performing a Firm Level Strategic
Analysis Summary The Search for Global
Markets: The Decision Making
Process Preliminary Screening of Markets The
Process of Screening Countries Using Three
Separate Screening Matrices Performing an
in-Depth Market Analysis of the Two Best
Markets Market and Company Sales
Potential Analyzing Market/Country Specific
Competitive Analysis Identification of Country-**

entry Conditions for the Firm
Analysis of Financial and Market Entry
Conditions
Creating an Entry Strategy into a Selected Market:
Selecting an Entry Mode into the Target Market
The Business Environment of the Selected Market
Creating a Marketing Plan with Its Firm Specific Goals and Objectives
Developing a Product Strategy
Developing a Pricing Strategy
Creation of a Promotional Strategy
Developing of a Distribution Strategy
Creation of a Financial

**Strategy Creating the Organizational
Structure for the New Market Understanding
Exit Strategy and Scenarios Summary The
GMMSO4 Software System: GMMSO4: What Is
GMMSO? Bridge the Gap Benefits Background
to the Development of the Online Version of
the GMMS Method Learning Outcomes Case
Study: Lafkiotis Winery Entry into United
States: A Report Created by Using the
GMMSO4 System Lafkiotis Winery's Strategic
Analysis The Search for Global Market Entry
Strategy into the US Market Readership:**

Students, instructors, researchers and professionals working in the fields of marketing management, global strategy and international business.

The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then

combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel

noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study. A new approach to safety, based on systems thinking, that is more effective, less costly, and easier to use than current techniques. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety and reliability engineering, created in a simpler, analog

world, have changed very little over the years. In this groundbreaking book, Nancy Leveson proposes a new approach to safety—more suited to today's complex, sociotechnical, software-intensive world—based on modern systems thinking and systems theory. Revisiting and updating ideas pioneered by 1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive, and easier to

use than current techniques. Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes, or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. She applies the new techniques to real-world events including the friendly-fire

loss of a U.S. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U.S. Navy SUBSAFE program; and the bacterial contamination of a public water supply in a Canadian town. Leveson's approach is relevant even beyond safety engineering, offering techniques for “reengineering” any large sociotechnical system to improve safety and manage risk.

This book presents state-of-the-art lectures delivered by international academic and industrial experts in the field of

computational science and its education, covering a wide spectrum from theory to practice. Topics include new developments in finite element method (FEM), finite volume method and Spline theory, such as Moving Mesh Methods, Galerkin and Discontinuous Galerkin Schemes, Shape Gradient Methods, Mixed FEMs, Superconvergence techniques and Fourier spectral approximations with applications in multidimensional fluid dynamics; Maxwell equations in discrepancy media; and phase-field equations. It also

discusses some interesting topics related to Stokes equations, Schrodinger equations, wavelet analysis and approximation theory. Contemporary teaching issues in curriculum reform also form an integral part of the book. This book will therefore be of significant interest and value to all graduates, research scientists and practitioners facing complex computational problems. Administrators and policymakers will find it is an addition to their mathematics curriculum reform libraries.

Read Book Assignment Ocw Mit

Equilibrium Statistical Mechanics

Linear Algebra and Learning from Data

**Beginning Game Development with Python
and Pygame**

How the Mind Works

Engineering a Safer World

The first edition of *Assessing Student Learning* has become the standard reference for college faculty and administrators who are charged with the task of assessing student learning within their institutions. The second edition of this landmark book offers the same practical guidance and is designed to meet ever-increasing demands for improvement and accountability. This edition includes expanded coverage of

Read Book Assignment Ocw Mit

vital assessment topics such as promoting an assessment culture, characteristics of good assessment, audiences for assessment, organizing and coordinating assessment, assessing attitudes and values, setting benchmarks and standards, and using results to inform and improve teaching, learning, planning, and decision making.

The Web is always moving, always changing. As some Web sites come, others go, but the most effective sites have been well established. A Subject Guide to Quality Web Sites provides a list of key web sites in various disciplines that will assist researchers with a solid starting point for their queries. The sites included in this collection are stable and have librarian tested high-quality information: the most important attribute information can have.

Read Book Assignment Ocw Mit

This book presents twelve papers on the use of Languages for Specific Purposes (LSPs) throughout history. From Antiquity to the present time, contributors analyse how LSPs emerged both in Europe and in other parts of the world, such as Judea, North America, and China. The historical aspect of LSPs has generally not been studied in depth, despite being part of the global understanding of the phenomenon. All aspects of professional life are tackled in this book, including administration, commerce, diplomacy, medicine, legal studies, geography, sociology, mathematics and history. This volume will naturally appeal to historians but also to linguists, sociologists, and anyone interested in languages used in a professional context. It offers a better understanding of where LSPs come from, how they emerged and how they tend to

Read Book Assignment Ocw Mit

become real specialties in the teaching of modern languages. Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these concepts to tackle practical system design problems. To support the focus on design, the text identifies and explains abstractions that have proven successful in practice such as remote procedure call, client/service organization, file systems, data integrity,

Read Book Assignment Ocw Mit

consistency, and authenticated messages. Most computer systems are built using a handful of such abstractions. The text describes how these abstractions are implemented, demonstrates how they are used in different systems, and prepares the reader to apply them in future designs. The book is recommended for junior and senior undergraduate students in Operating Systems, Distributed Systems, Distributed Operating Systems and/or Computer Systems Design courses; and professional computer systems designers. Features: Concepts of computer system design guided by fundamental principles. Cross-cutting approach that identifies abstractions common to networking, operating systems, transaction systems, distributed systems, architecture, and software engineering. Case studies that

Read Book Assignment Ocw Mit

make the abstractions real: naming (DNS and the URL); file systems (the UNIX file system); clients and services (NFS); virtualization (virtual machines); scheduling (disk arms); security (TLS). Numerous pseudocode fragments that provide concrete examples of abstract concepts. Extensive support. The authors and MIT OpenCourseWare provide on-line, free of charge, open educational resources, including additional chapters, course syllabi, board layouts and slides, lecture videos, and an archive of lecture schedules, class assignments, and design projects.

Knowledge and the Governance of Higher Education

Design Concepts in Programming Languages

Patterns for Parallel Programming

Vibrations and Waves

Read Book Assignment Ocw Mit

Historical Scientific Instruments in Contemporary Education Beyond Simulation and Online Courses

The M.I.T. Introductory Physics Series is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and

Read Book Assignment Ocw Mit

maintaining an experienced staff to cooperate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken. Did you know that any straight-line drawing on paper can be folded so that the complete

Read Book Assignment Ocw Mit

drawing can be cut out with one straight scissors cut? That there is a planar linkage that can trace out any algebraic curve, or even 'sign your name'? Or that a 'Latin cross' unfolding of a cube can be refolded to 23 different convex polyhedra? Over the past decade, there has been a surge of interest in such problems, with applications ranging from robotics to protein folding. With an emphasis on algorithmic or computational aspects, this treatment gives hundreds of results and over 60 unsolved 'open problems' to inspire further research. The authors cover one-dimensional (1D) objects (linkages), 2D

Read Book Assignment Ocw Mit

objects (paper), and 3D objects (polyhedra). Aimed at advanced undergraduate and graduate students in mathematics or computer science, this lavishly illustrated book will fascinate a broad audience, from school students to researchers.

Second edition of successful materials science text for final year undergraduate and graduate students.

Social processes and policies that foster openness as an overriding value as evidenced in the growth of open source, open access and open education and their convergences that characterize global knowledge communities

Read Book Assignment Ocw Mit

that transcend borders of the nation-state. Openness seems also to suggest political transparency and the norms of open inquiry, indeed, even democracy itself as both the basis of the logic of inquiry and the dissemination of its results. Openness is a value and philosophy that also offers us a means for transforming our institutions and our practices. This book examines the interface between learning, pedagogy and economy in terms of the potential of open institutions to transform and revitalize education in the name of the public good. Distance Education: A Systems View of Online

Read Book Assignment Ocw Mit

Learning

Geometric Folding Algorithms

The Pedagogy of the Open Society

Linkages, Origami, Polyhedra

An Introduction

Assessing Student Learning

The new edition of an introductory text that teaches students the art of computational problem solving, covering topics ranging from simple algorithms to information visualization. This book introduces students with little or no prior programming experience to the art of

Read Book Assignment Ocw Mit

computational problem solving using Python and various Python libraries, including PyLab. It provides students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of data science for using computation to model and interpret data. The book is based on an MIT course (which became the most popular course offered through MIT's OpenCourseWare) and was developed for use not only in a conventional classroom but in in a massive open online course (MOOC).

Read Book Assignment Ocw Mit

This new edition has been updated for Python 3, reorganized to make it easier to use for courses that cover only a subset of the material, and offers additional material including five new chapters. Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration, bisection search, and efficient approximation algorithms. Although it covers such traditional topics as computational complexity and simple algorithms, the book

Read Book Assignment Ocw Mit

focuses on a wide range of topics not found in most introductory texts, including information visualization, simulations to model randomness, computational techniques to understand data, and statistical techniques that inform (and misinform) as well as two related but relatively advanced topics: optimization problems and dynamic programming. This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics.

Read Book Assignment Ocw Mit

This is an excellent, up-to-date and easy-to-use text on data structures and algorithms that is intended for undergraduates in computer science and information science. The thirteen chapters, written by an international group of experienced teachers, cover the fundamental concepts of algorithms and most of the important data structures as well as the concept of interface design. The book contains many examples and diagrams. Whenever appropriate, program codes are included to facilitate

Read Book Assignment Ocw Mit

learning. This book is supported by an international group of authors who are experts on data structures and algorithms, through its website at www.cs.pitt.edu/~jung/GrowingBook/, so that both teachers and students can benefit from their expertise.

The Parallel Programming Guide for Every Software Developer From grids and clusters to next-generation game consoles, parallel computing is going mainstream. Innovations such as Hyper-Threading Technology, HyperTransport Technology, and multicore

Read Book Assignment Ocw Mit

microprocessors from IBM, Intel, and Sun are accelerating the movement's growth. Only one thing is missing: programmers with the skills to meet the soaring demand for parallel software. That's where Patterns for Parallel Programming comes in. It's the first parallel programming guide written specifically to serve working software developers, not just computer scientists. The authors introduce a complete, highly accessible pattern language that will help any experienced developer "think parallel"-and start

Read Book Assignment Ocw Mit

writing effective parallel code almost immediately. Instead of formal theory, they deliver proven solutions to the challenges faced by parallel programmers, and pragmatic guidance for using today's parallel APIs in the real world. Coverage includes: Understanding the parallel computing landscape and the challenges faced by parallel developers Finding the concurrency in a software design problem and decomposing it into concurrent tasks Managing the use of data across tasks Creating an algorithm structure that

Read Book Assignment Ocw Mit

effectively exploits the concurrency you've identified Connecting your algorithmic structures to the APIs needed to implement them Specific software constructs for implementing parallel programs Working with today's leading parallel programming environments: OpenMP, MPI, and Java Patterns have helped thousands of programmers master object-oriented development and other complex programming technologies. With this book, you will learn that they're the best way to master parallel programming too.

Read Book Assignment Ocw Mit

Practical Programming for Total Beginners ***The Analytics Edge***