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lecture notes for linear algebra provides instructors with a detailed lecture by lecture outline for a basic linear algebra course the ideas and examples presented in this e book are based on strang s video lectures for mathematics 18 06 and 18 065 available on mit s opencourseware ocw mit edu and youtube youtube com mitocw readers will quickly gain a picture of the whole course the structure of the subject the key topics in a natural order and the connecting ideas that make linear algebra so beautiful

this volume provides a short summary of the essentials of lagrangian dynamics for practicing engineers and students of physics and engineering it examines a range of phenomena and techniques in a style that is compact and succinct while remaining comprehensive the book provides a review of classical mechanics and coverage of critical topics including holonomic and non holonomic systems virtual work the principle of d alembert for dynamical systems the mathematics of conservative forces the extended hamilton s principle lagrange s equations and lagrangian dynamics a systematic procedure for generalized forces quasi coordinates and quasi velocities lagrangian dynamics with quasi coordinates professor ranjan vepa s approach and the hamiltonian formulation adopting a step by step approach with examples throughout the book this ready reference completely develops all of the relevant equations and is ideal for practicing mechanical aeronautical and civil engineers physicists and graduate upper level undergraduate students explains in detail the development of the theory behind lagrangian dynamics in a practical fashion discusses virtual work generalized forces conservative forces constraints extended hamilton s principle and the hamiltonian formulation presents two different approaches to the quasi velocity method for non holonomic constraints reinforces concepts presented with illustrative examples includes comprehensive coverage of the important topics of classical mechanics

this is the first volume in a trilogy on modern signal processing the three books provide a concise exposition of signal processing topics and a guide to support individual practical exploration based on matlab programs this book includes matlab codes to illustrate each of the main steps of the theory offering a self contained guide suitable for independent study the code is

embedded in the text helping readers to put into practice the ideas and methods discussed the book is divided into three parts the first of which introduces readers to periodic and non periodic signals the second part is devoted to filtering which is an important and commonly used application the third part addresses more advanced topics including the analysis of real world non stationary signals and data e g structural fatigue earthquakes electro encephalograms birdsong etc the book s last chapter focuses on modulation an example of the intentional use of non stationary signals

the films of charles and ray eames traces the history of the eameses work examining their evolution away from the design of mass produced goods and toward projects created as educational experiences closely examining how the eameses described their work reveals how the films and exhibitions they generated were completely at odds with the earlier objectives exemplified in their furniture designs shifting away from promoting the consumer culture they turned their attention to the presentation of complex sets of scientific artistic and philosophical ideas during a critical period from the late 1950s to the early 1960s there was a moment of introspective self reflection in the west stemming from the events of the cold war this moment of uncertainty was crucial for it provided the incentive to question the values and concerns of society as a whole in turn designers began to question their own sense of purpose temporarily expanding the purview of design to a broader field of inquiry in the case of the eameses they identified an overriding problem related to consumerism and excess in america and sought to resolve the issue by creating a network of communication between universities governments institutions and corporations the solution of promoting greater education experiences as an alternative to consumerism in america required that different sectors of society functioned in unison to address political social economic and educational concerns the films of charles and ray eames reconsiders how design intersects with humanity culture and the sciences

offering a carefully reviewed selection of over 50 papers illustrating the breadth and depth of computer architecture this text includes insightful introductions to guide readers through the primary sources

digital cities constitutes a multidisciplinary field of research and development where researchers designers and developers of communityware interact and collaborate with social scientists studying the use and effects of these kinds of infrastructures and systems in their local application context the field is rather young after the diffusion of ict in the world of organizations and

companies ict entered everyday life and this also influenced ict research and development the 1998 workshop on communityware and social interaction in kyoto was an early meeting in which this emerging field was discussed after that two subsequent digital cities workshops were organized in kyoto and a third one in amsterdam this book is the result of the 3rd workshop on digital cities which took place september 18 19 2003 in amsterdam in conjunction with the 1st communities and technologies conference most of the papers were presented at this workshop and were revised thoroughly afterwards also the case studies of digital cities in asia the us and europe included in part i were direct offsprings of the digital cities workshops together the papers in this volume give an interesting state of the art overview of the field in total 54 authors from the americas from asia and from europe were contributed to this volume the authors come from brazil two the usa eleven china three japan fourteen finland two germany two italy three portugal two the netherlands eight and the uk seven indicating the international nature of the research field

learning resources are often considered key intellectual property in a competitive higher education world however more and more institutions and individuals are sharing their digital learning resources over the internet openly and for free as open educational resources oer this study building on previous oecd work on e learning asks why this is happening who is involved and what the most important implications of this development are the report offers a comprehensive overview of the rapidly changing phenomenon of open educational resources and the challenges it poses for higher education it examines reasons for individuals and institutions to share resources for free and looks at copyright issues sustainability and business models as well as policy implications giving knowledge for free will be of particular interest to those involved in e learning or strategic decisionmaking within higher education to researchers and to students of new technologies

the handbook of information security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security the text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare

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