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Introduction to Python for Science and Engineering This guide offers a quick and incisive introduction to Python programming for anyone. The author has carefully developed a concise approach to using Python in any discipline of science and engineering, with plenty of examples, practical hints, and insider

tips.

Appropriate for undergraduate-level courses in Introduction to Engineering Experimentation found in departments of Mechanical, Aeronautical, Civil, and Electrical Engineering. Wheeler and Ganji introduce many topics that engineers need to master in order to plan, design and document a successful experiment or measurement system. The text offers thorough discussions of topics often ignored or merely touched upon by other texts, including modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis.

Wheeler and Ganji introduce many topics that engineers need to master in order to plan, design and document a successful experiment or measurement system. The text offers thorough discussions of topics often ignored or merely touched upon, including modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis.

KEY BENEFIT: An up-to-date, practical introduction to engineering experimentation. Introduction to Engineering Experimentation, 3E introduces many topics that engineers need to master in order to plan, design, and document a successful experiment or measurement system. The text offers a practical approach with current examples and thorough discussions of key topics, including those often ignored or merely touched upon by other texts, such as modern computerized data acquisition systems, electrical output measuring devices, and in-depth coverage of experimental uncertainty analysis. The book includes theoretical coverage and selected applications of statistics and probability, instrument dynamic response, uncertainty analysis and Fourier analysis; detailed descriptions of computerized data acquisition systems and system components, as well as a wide range of common sensors and measurement systems such as strain gages and thermocouples. Worked examples are provided for theoretical topics and sources of uncertainty are presented for measurement systems. For engineering professionals looking for an up-to-date, practical introduction to the field of engineering experimentation.

An overview of experimental methods providing practical advice to students seeking guidance with their experimental work.

This text provides students with the missing link that can help them master the basic principles of electromagnetics. The concept of vector fields is introduced by starting with clear definitions of

position, distance, and base vectors. The symmetries of typical configurations are discussed in detail, including cylindrical, spherical, translational, and two-fold rotational symmetries. To avoid serious confusion between symbols with two indices, the text adopts a new notation: a letter with subscript 1-2 for the work done in moving a unit charge from point 2 to point 1, in which the subscript 1-2 mimics the difference in potentials, while the hyphen implies a sense of backward direction, from 2 to 1. This text includes 300 figures in which real data are drawn to scale. Many figures provide a three-dimensional view. Each subsection includes a number of examples that are solved by examining rigorous approaches in steps. Each subsection ends with straightforward exercises and answers through which students can check if they correctly understood the concepts. A total 350 examples and exercises are provided. At the end of each section, review questions are inserted to point out key concepts and relations discussed in the section. They are given with hints referring to the related equations and figures. The book contains a total of 280 end-of-chapter problems.

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

For most of political science's history, discussions about professional ethics had nothing to do with human subjects. Professional ethics involved integrity in the classroom, fair tenure and promotion rule, and the careful avoidance of plagiarism. As most research was observational, there was little need for

attention to how scholarly activities might directly affect the subjects of our work. Times have changed. The dramatic growth in the use of experiments in social science, especially overseas, is generating unexpected ethical controversies. The purpose of this volume is to identify, debate, and propose practical solutions to the most critical of these new ethical issues. A leading team of internationally distinguished political science scholars presents the first examination of the practical and ethical challenges of research with human subjects in social science and policy studies. Part 1 examines contextual challenges provided by experiments conducted overseas - questions of culture, religion, security, and poverty. Part 2 examines questions of legal constraints on research, focusing on questions of foreign review of international experiments. Part 3 tackles the critical issues in field experiments, including deception and consent, impact on elections and careers, the boundaries of the public officials' exemption, and the use of partner organizations to avoid Institutional Review Body (IRB) review. Part 4 considers strategies for the future, including training and education, IRB reform, institutional changes, and norm development.

The nature of engineering and it's societal impact are covered, as well as the educational and legal requirements needed to become an engineer. Engineers contribute to the development of many innovations that improve life. We investigate how engineers work to meet human needs; great engineering accomplishments of the past; and consider needs that engineering must meet in the future. Engineering design process, how it differs design processes, and how the implementation of the design process effects the quality of the resulting design. The application of the principles of mathematics and science to the creation or modification of components, systems, and processes for the benefit of society are covered with a focus on the balance between quality, performance, and cost. How engineers use creativity and judgment to solve societal how problems; complex engineering problems are usually solved by teams are covered; as well as the intended desirable consequences and unintended undesirable consequences of engineering.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For use in the first-year engineering course. This text is also suitable for individuals interested in adopting a problem-solving approach to engineering problems. The goal of this text is to introduce a general problem-solving approach for the beginning engineering student. Thus, Introduction to Engineering Analysis focuses on how to solve (any) kind of engineering analytical problem in a logical and systematic way. The book helps to prepare the students for such analytically oriented courses as statics, strength of materials, electrical circuits, fluid mechanics, thermodynamics, etc.

This book thoroughly covers the fundamentals of the QFT robust control, as well as practical control solutions, for unstable, time-delay, non-minimum phase or distributed parameter systems, plants with large model uncertainty, high-performance specifications, nonlinear components, multi-input multi-output characteristics or asymmetric topologies. The reader will discover practical applications through a collection of fifty successful, real world case studies and projects, in which the author has been involved during the last twenty-five years, including commercial wind turbines, wastewater treatment plants, power systems, satellites with flexible appendages, spacecraft, large radio telescopes, and industrial manufacturing systems. Furthermore, the book presents problems and projects with the popular QFT Control Toolbox (QFTCT) for MATLAB, which was developed by the author.

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