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Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

1 DATA ENVELOPMENT ANALYSIS Data Envelopment Analysis (DEA) was initially developed as a method for assessing the comparative efficiencies of organisational units such as the branches of a bank, schools, hospital departments or restaurants. The key in each case is that they perform feature which makes the units comparable the same function in terms of the kinds of resource they use and the types of output they produce. For example all bank branches to be compared would typically use staff and capital assets to effect income generating activities such as advancing loans, selling financial products and carrying out banking transactions on behalf of their clients. The efficiencies assessed in this context by DEA are intended to reflect the scope for resource conservation at the unit being assessed without detriment to its outputs, or alternatively, the scope for output augmentation without additional resources. The efficiencies assessed are comparative or relative because they reflect scope for resource conservation or output augmentation at one unit relative to other comparable benchmark units rather than in some absolute sense. We resort to relative rather than absolute efficiencies because in most practical contexts we lack sufficient information to derive the superior measures of absolute efficiency. DEA was initiated by Charnes Cooper and Rhodes in 1978 in their seminal paper Charnes et al. (1978). The paper operationalised and extended by means of linear programming production economics concepts of empirical efficiency put forth some twenty years earlier by Farrell (1957).

Recently there has been a keen interest in the statistical analysis of change point detection and estimation. Mainly, it is because change point problems can be encountered in many disciplines such as economics, finance, medicine, psychology, geology, literature, etc. , and even in our daily lives. From the statistical point of view, a change point is a place or time point such that the observations follow one distribution up to that point and follow another distribution after that point. Multiple change points problem can also be defined similarly. So the change point(s) problem is two fold: one is to decide if

there is any change (often viewed as a hypothesis testing problem), another is to locate the change point when there is a change present (often viewed as an estimation problem). The earliest change point study can be traced back to the 1950s. During the following period of some forty years, numerous articles have been published in various journals and proceedings. Many of them cover the topic of single change point in the means of a sequence of independently normally distributed random variables. Another popularly covered topic is a change point in regression models such as linear regression and autoregression. The methods used are mainly likelihood ratio, nonparametric, and Bayesian. Few authors also considered the change point problem in other model settings such as the gamma and exponential.

In the global economy, regional development and innovation are increasingly an imperative to increase the competitive edge of EU economies. While European regions are different in many ways, the innovation capacity of regions, clusters and firms is what makes them capable of building up new and diversified pathways for sustainable growth. For this reason, Innovation Drivers and Regional Innovation Strategies looks to analyze different knowledge drivers (e.g. entrepreneurial or policy-orientation; scientific and practice-based knowledge modes; institutional innovation support) that influence the innovative and competitive capacity of regions, clusters and firms in Europe. The aim of this volume is to develop an in-depth understanding of these drivers and their implications for the way in which regional and cluster growth may be upgraded. Innovation Drivers and Regional Innovation Strategies examines the construction of new innovation pathways for regions and clusters in different geographical contexts. The main themes are cluster evolution, regional innovation systems and business innovation modes and capabilities. The objectives are centred on exploring the logic and mechanisms that can be activated as a means to promote innovation and competitiveness within regions and, within these, across and within firms. Aimed at researchers and academics in the field, this is a thoughtful and innovative new volume that helps define the academic debate.

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

We no longer build buildings like we used to nor do we pay for them in the same way. Buildings today are no longer only shelter but are also life support systems, communication terminals, data manufacturing centers, and much more. Buildings are incredibly expensive tools that must be constantly adjusted to function efficiently. The economics of building has become as complex as its design. When buildings were shelter they lasted longer than their builders. The average gothic master mason lived 35 or 40 years. Cathedrals took 3 or 4 hundred years to build. Cost estimates were verified by great great grandchildren of the original designer. Today, creative economics has become as important as creative design and creative building. The client brings builder, contractor, architect, and facilities manager to account in their life time. The cost of building can therefore no longer be left to chance or act of god. Solutions are no longer as ingeniously simple as those proposed by a Florentine builder early in the 15th century. He proposed to center the dome of S. Maria del Fiore on a great mound of earth mixed with pennies. When the job was done street urchins would carry away the dirt in their search for the pennies. This was a serious suggestion offered by an early construction manager before Brunelleschi solved the problem more sensibly.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

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