

Ence 355 Lecture Notes Assakkaf

Seminar paper from the year 2017 in the subject Business economics - Investment and Finance, grade: 1,7, The FOM University of Applied Sciences, Hamburg, language: English, abstract: This paper will examine the question of how M&A activities influence a company's stock price and earnings per share (EPS), especially if the bootstrap effect occurs? In 2016, the global mergers and acquisitions (M&A) activities decreased by about 18 percent compared to 2015. Altogether, 17,369 deals with a value of 3.2 trillion (tn.) US-Dollars (USD) were performed. There are numerous reasons to invest and divest in inorganic growth. Organic growth has its limitations, thus acquiring competitors, growing vertically or horizontally as well as accessing new markets are strong motivators to do so. Growing a business is often linked with going public. The decision to be part of the stock market and to perform M&A influences an enterprise's value for various reasons. To approach these questions, the first chapter gives a general overview of reasons, motivators, risks and benefits of M&A. Thereafter, the influence of M&A on a company's shareholder value and EPS is examined. Then, the bootstrap effect is explained and subsequently illustrated by an exemplary M&A transaction. Afterwards the risks and benefits of bootstrapping and M&A are analysed to consider its usefulness and influence on the share price and EPS.

This book is written by 16 experienced geologists with first hand knowledge of the geology of Iraq and deals with all aspects of the country's geology. The aims of the book are to present a synthesis of the geological history of Iraq and a description of its economic geology, and to provide a key reference for both students and professional geologists. It updates the text books of Buday (1980) and Buday and Jassim (1987). The book includes previously unpublished information collected during the regional geological surveys of Iraq carried out from 1970 to 1990. Each chapter has been extensively edited to create a concise text. The stratigraphy of Iraq is placed within a consistent tectonostratigraphic framework.

In this third edition the chapters have been enhanced to reflect changes in technology and the way the air transport industry runs. Key topics that are newly addressed include low cost airline operations, security issues and EASA regulations on airports. A new chapter covering extended details about wildlife control has been added to the volume.

Offshore Semi-Submersible Platform Engineering presents a primer on the analysis and design of semi-submersible platforms, in particular, while also covering general analysis and design guidelines of offshore compliant platforms. It introduces general structural designs and also examines the details of the various environmental impacts that act upon them, such as fatigue, fire, collisions, and water waves. Features Provides thorough coverage of the dynamic analysis and design of semi-submersible platforms Assists readers through detailed analysis methods using MATLAB® as well as other computer programs used to carry out structural analysis Explains impact loading and dynamic response through numerical analysis and examines the various factors that affect semi-submersibles Presented in a coursework teaching style, the content is explained in a step-by-step manner using color figures, photos, screen shots, and illustrations, thereby enabling students, researchers, and practicing engineers to carry out analysis with ease Offshore Semi-Submersible Platform Engineering serves as a practical guide for upper-level students and graduates of various engineering disciplines, for example, naval architecture, and structural, mechanical, pipeline, and offshore engineering. Further, it can also be used as a reference for practicing professionals, as the book covers a broad range of scholarships and applications.

"Examining reliability, availability, and risk analysis and reviewing in probability and statistics essential to understanding reliability methods, this outstanding volume describes day-to-day techniques used by practicing engineers -- discussing important reliability aspects of both components and complex systems. "

Lecture-Tutorials for Introductory Astronomy were developed to integrate the needs of busy, research-focused faculty who teach in challenging environments with existing, effective teaching strategies. Chapter topics include the Solar System, stellar magnitudes, techniques in astronomy, moon phases, stellar evolution, and more. For college professors, instructors and other professionals who are interested in a lively, engaging method of teaching introductory astronomy.

The fourth edition of this popular steel structures book contains references to both Eurocodes and British Standards. All the material has been updated where necessary, and new and revised worked examples are included. Sections on the meaning, the purpose and limits of structural design, sustainable steel building and energy saving have been updated. The initial chapters cover the essentials of structural engineering and structural steel design. The remainder of the book is dedicated to a detail examination of the analysis and design of selected types of structures, presenting complex designs in an understandable and user-friendly way. These structures include a range of single and multi-storey buildings, floor systems and wide-span buildings. Each design example is illustrated with applications based on current Eurocodes or British Standard design data, thus assisting the reader to share in the environment of the design process that normally takes place in practical offices and develop real design skills. Two new chapters on the design of cased steel columns and plate girders with and without rigid end posts to EC4 & EC3 are included too. References have been fully updated and include useful website addresses. Emphasis is placed on practical design with a view to helping undergraduate students and newly qualified engineers bridge the gap between academic study and work in the design office. Practising engineers who need a refresher course on up-to-dates methods of design and analysis to EC3 and EC4 will also find the book useful, and numerous worked examples are included.

Power quality is a very broad subject, covering all stages of power systems engineering, from the generation, transmission, and distribution levels to the end-users. This book contains a selection of the best papers on power quality presented at the International Conferences on Renewable Energy and Power Quality from 2003 to 2012. The volume represents a unique selection of the best contributions to power quality exploitation and evolution over the past decade. As such, it provides an up-to-date reference point for researchers, technicians and engineering interested in the state of the field of power quality. This book will primarily interest professional engineers and researchers dealing with power quality, but will also prove useful to postgraduate level students. It can also be used as a reference book for engineers, physicists and mathematicians interested and involved in operation, project management, design, and analysis of power quality issues. Each chapter contains references that allow the treated topic to be further deepened.

This volume elucidates the designs of various types of foundation and structures like retaining walls, water tanks, various types of slabs, multi-storyed buildings formwork, detailing of reinforcements and elements of prestressed concrete, based on latest Indian

standards mainly using Limit State Method. A complete multi-storeyed building design example is also included.

Take Advantage of the Latest Calculation Methods for Solving Problems in Every Major Area of Environmental Engineering The only hands-on reference of its kind, the Handbook of Environmental Engineering Calculations equips you with step-by-step calculation procedures covering virtually every aspect of environmental engineering. Designed to give you quick access to essential information, the updated Second Edition of this unique guide now presents the latest methods for solving a wide range of specific problems, together with worked-out examples that include numerical results for the calculations. Written by a team of environmental experts from both the private and public sectors, this easy-to-use reference provides you with complete calculations for water quality assessment and control...solid waste materials ... and air pollution control. Filled with 200 helpful illustrations, the Second Edition features: Hundreds of detailed examples and calculations with fully illustrated steps Calculations covering every aspect of environmental engineering Both SI and U.S. customary units presented throughout New to this edition: new sections on fuel cells and air toxic risk assessment Inside This State-of-the-Art Environmental Engineering Toolkit • Calculations of Water Quality Assessment and Control • Solid Waste Calculations • Air Pollution Control Calculations • Air Toxic Risk Assessment • Fuel Cell Technologies

The investigation and modelling of aviation accident causation is dominated by linear models. Aviation is, however, a complex system and as such suffers from being artificially manipulated into non-complex models and methods. This book addresses this issue by developing a new approach to investigating aviation accident causation through information networks. These networks centralise communication and the flow of information as key indicators of a system's health and risk. This holistic approach focuses on the system environment, the activity that takes place within it, the strategies used to conduct this activity, the way in which the constituent parts of the system (both human and non-human) interact and the behaviour required. Each stage of this book identifies and expands upon the potential of the information network approach, maintaining firm focus on the overall health of a system. The book's new model offers many potential developments and some key areas are studied in this research. Through the centralisation of barriers and information nodes the method can be applied to almost any situation. The application of Bayesian mathematics to historical data populations provides scope for studying error migration and barrier manipulation. The book also provides application of these predictions to a flight simulator study for the purposes of validation. Beyond this it also discusses the applicability of the approach to industry. Through working with a legacy airline the methods discussed are used as the basis for a new and prospective safety management system.

S.S. Rao presents the principles of reliability-based engineering and design in a simple and straight-forward approach. He addresses the design of mechanical components and systems; Monte Carlo simulation; reliability-based optimum design; strength-based reliability and interface theory; reliability testing; time-dependent reliability of components and systems; failure modes, event tree and fault tree analysis; quality control and reliability; modeling of geometry; weakest-link and fail-safe systems; maintainability and availability; extremal distributions; random variables and probability distributions; functions of random variables; and basic probability theory. With 254 illustrations and an index. Over the course of a century, the Boeing Company has grown from a small outfit operating out of a converted boathouse—producing a single pontoon plane made from canvas and wood—into the world's largest aerospace company. The thrilling story of the celebrated organization is

one filled with ambition, ingenuity, and a passion to exceed expectations. In this lavishly illustrated book, published to coincide with Boeing's 100th anniversary, Pulitzer Prize–nominated author Russ Banham recounts the tale of a company and an industry like no other—one that has put men on the moon, defended the free world, and changed the way we live.

This book focuses on planning and scheduling for construction projects and presents field-site-based best practices related to schedule management and Primavera P6, and offers strategies that utilise scheduling methodologies and tools. These strategies are based on the theory of schedule management and features of scheduling software packages, which can be applied in every field site no matter what the construction project type is. This book introduces examples and tips, as well as suggestions for developing efficient schedules and management methods that ensure immediate improvement in schedule controlling. This book is designed to be Primavera P6 user-friendly, so readers using P6 can understand P6-based schedule management with ease. This book covers all matters schedulers should know and understand regarding schedule management. It also includes the missing manuals of schedule management textbooks and Primavera P6 manuals.

This guide provides engineers with an overview of the structural fire engineering design process and the techniques available to ensure the safe and economical fire design of concrete structures. It is the result of a collaborative research project funded by the UK government and the concrete industry. It will be of particular value to structural engineers familiar with the ambient temperature design of concrete structures but unfamiliar with the process of structural fire engineering design. It will also be of interest to regulators and specialist fire engineering consultants. It covers aspects of the performance of concrete in fire; comparison of UK standards for the design of concrete structures in fire with European standards (EN 1992-1-1 and EN 1992-1-2); and numerical analysis and simulation procedures for concrete structures in fire. This book presents a study for the determination of environmental load factors for Jacket Platforms in Malaysia and a methodology to determine the life extension of aging platforms. The simplified methods described here could be used for determining not only structural reliability but also safety factors. Its content is particularly interesting to design and maintenance engineers who are working in offshore or onshore industry.

A basic text for engineering students and practicing engineers dealing with design problems in all engineering disciplines. Optimization algorithms are developed through illustrative examples. Includes numerical results on the efficiencies of various algorithms, comparison of constrained-optimization methods, and strategies for optimization studies. Also includes several actual case studies.

Coal Production and Processing Technology provides uniquely comprehensive coverage of the latest coal technologies used in everything from mining to greenhouse gas mitigation. Featuring contributions from experts in industry and academia, this book: Discusses coal geology, characterization, beneficiation, combustion, coking, gasification, and liquefaction
Lecture Tutorials in Introductory Geoscience W. H. Freeman
Environmental Load Factors and System Strength Evaluation of Offshore Jacket Platforms Springer

Focuses on practical solutions covering production methods, tools, machine tools and other equipment, as well as

precision tool-manufacturing methods and production systems. This comprehensive reference also includes all the relevant aspects of the following: metallurgy, tribology, theory of plasticity, material properties and process data determination.

It is often necessary for social scientists to study differences in groups, such as gender or race differences in attitudes, buying behavior, or socioeconomic characteristics. When the researcher seeks to estimate group differences through the use of independent variables that are qualitative, dummy variables allow the researcher to represent information about group membership in quantitative terms without imposing unrealistic measurement assumptions on the categorical variables. Beginning with the simplest model, Hardy probes the use of dummy variable regression in increasingly complex specifications, exploring issues such as: interaction, heteroscedasticity, multiple comparisons and significance testing, the use of effects or contrast coding, testing for curvilinearity, and estimating a piecewise linear regression.

A guide to the Semantic Web, which will transform the Web into a structured network of resources organized by meaning and relationships. Concise description of classical statistics, from basic dice probabilities to modern regression analysis. Equal stress on theory and applications. Moderate difficulty; only basic calculus required. Includes problems with answers.

This volume contains the written texts of the papers presented at a Symposium on Buckling of Structures held at Harvard University in June 1974. This symposium, one of several on various topics sponsored annually by the International Union of Theoretical and Applied Mechanics (IUTAM), was organized by a Scientific Committee consisting of B. Budiansky (Chairman), A. H. Chilver, W. T. Koiter, and A. S. Vol'mir. Participation was by invitation of the Scientific Committee, and specific lecturers were invited to speak in the areas of experimental research, buckling and post-buckling calculations, post-buckling mode interaction, plasticity and creep effects, dynamic buckling, stochastic problems, and design. A total of 29 lectures were delivered, including a general opening lecture by Professor Koiter, and there were 93 registered participants from 16 different countries. Financial support for the symposium was provided by IUTAM, in the form of partial travel support for a number of participants, and also by the National Science Foundation, the National Aeronautics and Space Administration, and the Air Force Office of Scientific Research, for additional travel support and administrative expenses. Meeting facilities and services were efficiently provided by the Science Center of Harvard University, and administrative support was generously provided by the Division of Engineering and Applied Physics of Harvard University. The scientific chairman enjoyed the invaluable assistance of his colleagues Professors J. W. Hutchinson and J. L.

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