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KEY=15018 - REYNOLDS ACEVEDO

BACKGROUND TO SANS 10160

BASIS OF STRUCTURAL DESIGN AND ACTIONS FOR BUILDINGS AND INDUSTRIAL STRUCTURES

AFRICAN SUN MeDIA This book provides practising SA structural design engineers with the background to and justification for the changes proposed in the new SANS 10160 standard.

WIRE ROPES

TENSION, ENDURANCE, RELIABILITY

Springer The main goal of this book is to present the methods used to calculate the most important parameters for ropes, and to explain how they are applied on the basis of numerous sample calculations. The book, based on the most important chapters of the German book DRAHTSEILE, has been updated to reflect the latest developments, with the new edition especially focusing on computational methods for wire ropes. Many new calculations and examples have also been added to facilitate the dimensioning and calculation of mechanical characteristics of wire ropes. This book offers a valuable resource for all those working with wire ropes, including construction engineers, operators and supervisors of machines and installations involving wire ropes.

LOAD ASSUMPTION FOR FATIGUE DESIGN OF STRUCTURES AND COMPONENTS

COUNTING METHODS, SAFETY ASPECTS, PRACTICAL APPLICATION

Springer Understanding the fatigue behaviour of structural components under variable load amplitude is an essential prerequisite for safe and reliable light-weight design. For designing and dimensioning, the expected stress (load) is compared with the capacity to withstand loads (fatigue strength). In this process, the safety necessary for each particular application must be ensured. A prerequisite for ensuring the required fatigue strength is a reliable load assumption. The authors describe the transformation of the stress- and load-time functions which have been measured under operational conditions to spectra or matrices with the application of counting methods. The aspects which must be considered for ensuring a reliable load assumption for designing and dimensioning are discussed in detail. Furthermore, the theoretical background for estimating the fatigue life of structural components is explained, and the procedures are discussed for numerous applications in practice. One of the prime intentions of the authors is to provide recommendations which can be implemented in practical applications.

RECOMMENDATIONS FOR FATIGUE DESIGN OF WELDED JOINTS AND COMPONENTS

Springer This book provides a basis for the design and analysis of welded components that are subjected to fluctuating forces, to avoid failure by fatigue. It is also a valuable resource for those on boards or commissions who are establishing fatigue design codes. For maximum benefit, readers should already have a working knowledge of the basics of fatigue and fracture mechanics. The purpose of designing a structure taking into consideration the limit state for fatigue damage is to ensure that the performance is satisfactory during the design life and that the survival probability is acceptable. The latter is achieved by the use of appropriate partial safety factors. This document has been prepared as the result of an initiative by Commissions XIII and XV of the International Institute of Welding (IIW).

ANTIMICROBIAL PEPTIDES AND INNATE IMMUNITY

Springer Science & Business Media Antimicrobial peptides have been the subject of intense research in the past decades, and are now considered as an essential part of the defense system in bacteria, plants, animals and humans. his book provides an update on these effector molecules of the innate immune system both for researchers who are already actively involved in the area, and for those with a general interest in the topic. The book starts with an overview of the evolution of cysteine-containing antimicrobial peptides (including defensins), and the role of these peptides in host defense in plants and micro-organisms. The realization that antimicrobial peptides also display functions distinct from their direct antimicrobial action is the focus of the next chapters, and puts these peptides center stage in immunity and wound repair. Further chapters discuss the role of antimicrobial peptides in disease, by providing an overview of mechanisms in bacterial resistance to antimicrobial peptides and a discussion of their role in inflammatory bowel disease, cystic fibrosis lung disease and chronic obstructive pulmonary disease. Finally, the book shows how knowledge of the function of antimicrobial peptides and their regulation can be used to design new therapies for inflammatory and infectious disorders. This is a very important area of research because of the increase in resistance of micro-organisms to conventional antibiotics. Therefore the use of synthetic or recombinant peptides, or agents that stimulate the endogenous production of antimicrobial peptides, provides an attractive alternative for conventional antibiotics.

DESIGN AND ANALYSIS OF FATIGUE RESISTANT WELDED STRUCTURES

Woodhead Publishing An English version of a sucessful German book. Both traditional and modern concepts are described.

FATIGUE DESIGN (ESIS 16)

Wiley-Blackwell A compilation of research in fatigue design, prediction, and assessment Fatigue Design is a collection of research presented at the 1993 International Symposium on Fatigue Design. Detailing the latest findings and most current research, this book features papers on a variety of pertinent topics, including the quantification of service load for fatigue life predictions, identification of stress states and failure modes, assessment of residual life in damaged components, and more. Special attention is paid to the need for simple and reliable prediction tools to help better ensure adequate strength at the design stage.

FATIGUE ASSESSMENT OF WELDED JOINTS BY LOCAL APPROACHES

Woodhead Publishing Local approaches to fatigue assessment are used to predict the structural durability of welded joints, to optimise their design and to evaluate unforeseen joint failures. This standard work provides a systematic survey of the principles and practical applications of the various methods. It covers the hot spot structural stress approach to fatigue in general, the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation. Seam-welded and spot-welded joints in structural steels and aluminium alloys are also considered. This completely reworked second edition takes into account the tremendous progress in understanding and applying local approaches which has been achieved in the last decade. It is a standard reference for designers, structural analysts and testing engineers who are responsible for the fatigue-resistant in-service behaviour of welded structures. Completely reworked second edition of a standard work providing a systematic survey of the principles and practical applications of the various methods Covers the hot spot structural stress approach to fatigue in general, the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation. Written by a distinguished team of authors

OFFSHORE OPERATION FACILITIES

EQUIPMENT AND PROCEDURES

Gulf Professional Publishing Offshore Operation Facilities: Equipment and Procedures provides new engineers with the knowledge and methods that will assist them in maximizing efficiency while minimizing cost and helps them prepare for the many operational variables involved in offshore operations. This book clearly presents the working knowledge of subsea operations and demonstrates how to optimize operations offshore. The first half of the book covers the fundamental principles governing offshore engineering structural design, as well as drilling operations, procedures, and equipment. The second part includes common challenges of deep water oil and gas engineering as well as beach (shallow) oil engineering, submarine pipeline engineering, cable engineering, and safety system engineering. Many examples are included from various offshore locations, with special focus on offshore China operations. In the offshore petroleum engineering industry, the ability to maintain a profitable business depends on the efficiency and reliability of the structure, the equipment, and the engineer. Offshore Operation Facilities: Equipment and Procedures assists engineers in meeting consumer demand while maintaining a profitable operation. Comprehensive guide to the latest technology, strategies, and best practices for offshore operations Step-by-step approach for dealing with common challenges such as deepwater and shallow waters Includes submarine pipeline, cable engineering, and safety system engineering Unique examples from various offshore locations around the world, with special focus on offshore China

COMMUNICATING SCIENCE

A GLOBAL PERSPECTIVE

ANU Press Modern science communication has emerged in the twentieth century as a field of study, a body of practice and a profession—and it is a practice with deep historical roots. We have seen the birth of interactive science centres, the first university actions in teaching and conducting research, and a sharp growth in employment of science communicators. This collection charts the emergence of modern science communication across the world. This is the first volume to map investment around the globe in science centres, university courses and research, publications and conferences as well as tell the national stories of science communication. How did it all begin? How has development varied from one country to another? What motivated governments, institutions and people to see science communication as an answer to questions of the social place of science? Communicating Science describes the pathways followed by 39 different countries. All continents and many cultures are represented. For some countries, this is the first time that their science communication story has been told.

TOWER CRANE STABILITY

Tower cranes are a vital element in the construction process. There are around 1500 cranes in the UK and at any time around 1000 are in use. This document is intended to promote the safe design of foundations for, and use of, tower cranes through an improved understanding of temporary works design and health and safety issues.

FATIGUE TESTING AND ANALYSIS

THEORY AND PRACTICE

Elsevier Fatigue Testing and Analysis: Theory and Practice presents the latest, proven techniques for fatigue data acquisition, data analysis, and test planning and practice. More specifically, it covers the most comprehensive methods to capture the component load, to characterize the scatter of product fatigue resistance and loading, to perform the fatigue damage assessment of a product, and to

develop an accelerated life test plan for reliability target demonstration. This book is most useful for test and design engineers in the ground vehicle industry. Fatigue Testing and Analysis introduces the methods to account for variability of loads and statistical fatigue properties that are useful for further probabilistic fatigue analysis. The text incorporates and demonstrates approaches that account for randomness of loading and materials, and covers the applications and demonstrations of both linear and double-linear damage rules. The reader will benefit from summaries of load transducer designs and data acquisition techniques, applications of both linear and non-linear damage rules and methods, and techniques to determine the statistical fatigue properties for the nominal stress-life and the local strain-life methods. Covers the useful techniques for component load measurement and data acquisition, fatigue properties determination, fatigue analysis, and accelerated life test criteria development, and, most importantly, test plans for reliability demonstrations Written from a practical point of view, based on the authors' industrial and academic experience in automotive engineering design Extensive practical examples are used to illustrate the main concepts in all chapters

MATERIALS AND PROCESSES

FOR SPACECRAFT AND HIGH RELIABILITY APPLICATIONS

Springer The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The sciences of metallic (primarily) and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes, which involve quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by astronauts and returned to Earth from long durations in space are examined. Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the relia bility of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub-systems.

MOBILE CRANE MANUAL

Construction Safe Coun Ontario

CURSOR MUNDI (THE CURSUR O THE WORLD).

A NORTHUMBRIAN POEM OF THE XIVTH CENTURY IN FOUR VERSIONS

STRUCTURAL DURABILITY: METHODS AND CONCEPTS

ENABLING COST AND MASS EFFICIENT PRODUCTS

Springer Nature This book provides methods and concepts which enable engineers to design mass and cost efficient products. Therefore, the book introduces background and motivation related to sustainability and lightweight design by looking into those aspects from a durability and quality point of view. Hence this book gives a "top-down" approach: What does an engineer has to do for providing a mass and cost efficient solution? A central part of that approach is the "stress-strength interference model" and how to deal with "stresses" (caused by operational loads) as well as with the "strength" of components (provided by material, design and manufacturing process). The basic concepts of material fatigue are introduced, but the focus of the volume is to develop an understanding of the content and sequence of engineering tasks to be performed which help to build reliable products. This book is therefore aimed specifically at students of mechanical engineering and mechatronics and at engineers in professional practice.

PLATFORM CAPITALISM IN INDIA

Springer Nature This volume provides a critical examination of the evolution of platform economies in India. Contributions from leading media and communications scholars present case studies that illustrate the social and economic ambitions at the heart of Digital India. Across interdisciplinary domains of business, labour, politics, and culture, this book examines how digital platforms are embedding automated systems into the social fabrics of everyday life. Encouraging readers to explore the phenomenon of platformisation in context, the book uncovers the distinctive features of platform capitalism in India.

DESIGN OF STEEL STRUCTURES

S. Chand Publishing Many Advance in design,fabricationand construction of steel structures have taken place with the advancement of technology and globalization.Steel structures are used extensively in industrial structures in addition to bridges,tower and communication networks.steel cables of high tensile wires are also being used very extensively in the industry.

SECURITY INTELLIGENCE SERVICES IN NEW DEMOCRACIES

THE CZECH REPUBLIC, SLOVAKIA AND ROMANIA

Springer The first account of the secret police in Eastern Europe and after 1989, this book uses a wide range of sources, including archives, to identify what has and has not changed since the end of communism. After explaining the structure and workings of two of the area's most feared services, Czechoslovakia's StB and Romania's Securitate, the authors details the creation of new security

intelligence institutions, the development of contacts with the West, and forms of democratic control.

STEEL CONSTRUCTION MANUAL

Princeton Architectural Press For ease of comparison all the plans have been drawn to the same scale." "The volume concludes with an extensive bibliography and a listing of the relevant norms and standards, making this work an essential reference for all architects and engineers."--BOOK JACKET.

BIOTECHNOLOGY OF BIOPOLYMERS

FROM SYNTHESIS TO PATENTS

Wiley-Blackwell The best of the "Biopolymers" series. Since only a small number of individuals can afford to buy the entire Biopolymers series, or would simply prefer a broader overview, this handbook contains the very best of biotechnology, with articles taken directly from Alexander Steinbüchel´s successful series. As such, these two volumes cover the entire range of biopolymers and not just one chemical class, with the focus on the biotechnological systems and processes under development for a cost effective production, isolation and modification of biopolymers. Furthermore it covers the fundamentals of their chemical and physical properties, their occurrence, metabolism, biosynthesis and biodegradation as well as their industrial applications as renewable resources, novel materials and technical applications. With its contributions similarly structured for easy data comparison and an extensive table of patents, this is an ideal reference for medium sized laboratories and libraries.

CRANES

DESIGN, PRACTICE, AND MAINTENANCE

Wiley This second edition of Cranes – Design, Practice, and Maintenance has been thoroughly updated. Many new photographs are included and the latest information on developments in equipment and crane technology has been added. The chapter on standards has also been revised to include a comprehensive guide to current legislation. This unique book discusses and explains the technical issues and considerations in a practical way, offering a comprehensive review of the different types of cranes and their uses. Heavily illustrated with photographs and line drawings, this title continues to be of considerable interest to crane designers, crane manufacturers and suppliers, crane users, project managers, health and safety specialists, and consultants involved in a wide range of industries. TOPICS COVERED INCLUDE: Introduction Wire ropes Drives: calculating motor powers Brakes Standards Sagging and slapping of the wire ropes Rock and roll of the spreader Machinery trolleys versus wire rope trolleys Twin lift Positioning Automatic equipment identification (AEI) Construction and calculation methods on strength and fatigue Wheels and tracks.

WHEN HUMANS BECOME MIGRANTS

STUDY OF THE EUROPEAN COURT OF HUMAN RIGHTS WITH AN INTER-AMERICAN COUNTERPOINT

Oxford University Press The treatment of migrants is one of the most challenging issues that human rights, as a political philosophy, faces today. It has increasingly become a contentious issue for many governments and international organizations around the world. The controversies surrounding immigration can lead to practices at odds with the ethical message embodied in the concept of human rights, and the notion of 'migrants' as a group which should be treated in a distinct manner. This book examines the way in which two institutions tasked with ensuring the protection of human rights, the European Court of Human Rights and Inter-American Court of Human Rights, treat claims lodged by migrants. It combines legal, sociological, and historical analysis to show that the two courts were the product of different backgrounds, which led to differing attitudes towards migrants in their founding texts, and that these differences were reinforced in their developing case law. The book assesses the case law of both courts in detail to argue that they approach migrant cases from fundamentally different perspectives. It asserts that the European Court of Human Rights treats migrants first as aliens, and then, but only as a second step in its reasoning, as human beings. By contrast, the Inter-American Court of Human Rights approaches migrants first as human beings, and secondly as foreigners (if they are). Dembour argues therefore that the Inter-American Court of Human Rights takes a fundamentally more human rights-driven approach to this issue. The book shows how these trends formed at the courts, and assesses whether their approaches have changed over time. It also assesses in detail the issue of the detention of irregular migrants. Ultimately it analyses whether the divergence in the case law of the two courts is likely to continue, or whether they could potentially adopt a more unified practice.

PORTRAIT AND BIOGRAPHICAL ALBUM OF MORGAN AND SCOTT COUNTIES, ILLINOIS

THE MEGAS, ISSUE 4

Liquid Comics Created by acclaimed filmmaker Jonathan Mostow, (Terminator 3; U-571; Surrogates) Timing is running out for Agent Jack Madison to uncover who is behind the murder of Mega Prince Ellington Boudreaux. His mission is more important than ever since learning that a plot to massacre the Conclave is not an aim of the anti-Royalists, but a ploy by another, more shocking faction. But nothing can prepare Jack for the shock of who the culprit is working for...

CIGOS 2021, EMERGING TECHNOLOGIES AND APPLICATIONS FOR GREEN INFRASTRUCTURE

PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON GEOTECHNICS, CIVIL ENGINEERING AND STRUCTURES

Springer Nature This book highlights the key role of green infrastructure (GI) in providing natural and ecosystem solutions, helping alleviate many of the environmental, social, and economic problems caused by rapid urbanization. The book gathers the emerging

technologies and applications in various disciplines involving geotechnics, civil engineering, and structures, which are presented in numerous high-quality papers by worldwide researchers, practitioners, policymakers, and entrepreneurs at the 6th CIGOS event, 2021. Moreover, by sharing knowledge and experiences around emerging GI technologies and policy issues, the book aims at encouraging adoption of GI technologies as well as building capacity for implementing GI practices at all scales. This book is useful for researchers and professionals in designing, building, and managing sustainable buildings and infrastructure.

DRUM WISDOM

BIOREFINERY OF INORGANICS

RECOVERING MINERAL NUTRIENTS FROM BIOMASS AND ORGANIC WASTE

John Wiley & Sons Provides complete coverage of the recovery of mineral nutrients from biomass and organic waste This book presents a comprehensive overview of the potential for mineral recovery from wastes, addressing technological issues as well as economic, ecological, and agronomic full-scale field assessments. It serves as a complete reference work for experts in the field and provides teaching material for future experts specializing in environmental technology sectors. Biorefinery of Inorganics: Recovering Mineral Nutrients from Biomass and Organic Waste starts by explaining the concept of using anaerobic digestion as a biorefinery for production of an energy carrier in addition to mineral secondary resources. It then discusses the current state of mineral fertilizer use throughout the world, offering readers a complete look at the resource availability and energy intensity. Technical aspects of mineral recovery organic (waste-)streams is discussed next, followed by an examination of the economics of biobased products and their mineral counterparts. The book also covers the environmental impact assessment of the production and use of bio-based fertilizers; modelling and optimization of nutrient recovery from wastes; and more. Discusses global production and consumption of mineral fertilizers Introduces technologies for the recovery of mineral NPK from organic wastes and residues Covers chemical characterization and speciation of refined secondary resources, and shows readers how to assess biobased mineral resources Discusses applications of recovered minerals in the inorganic chemistry sector Compares the economics of biobased products with current fossil-based counterparts Offers an ecological assessment of introducing biobased products in the current fertilizer industry Edited by leading experts in the field Biorefinery of Inorganics: Recovering Mineral Nutrients from Biomass and Organic Waste is an ideal book for scientists, environmental engineers, and end-users in the agro-industry, the waste industry, water and wastewater treatment, and agriculture. It will also be of great benefit to policy makers and regulators working in these fields.

FINITE ELEMENT ANALYSIS AND DESIGN OF STEEL AND STEEL–CONCRETE COMPOSITE BRIDGES

Butterworth-Heinemann In recent years, bridge engineers and researchers are increasingly turning to the finite element method for the design of Steel and Steel-Concrete Composite Bridges. However, the complexity of the method has made the transition slow. Based on twenty years of experience, Finite Element Analysis and Design of Steel and Steel-Concrete Composite Bridges provides structural engineers and researchers with detailed modeling techniques for creating robust design models. The book's seven chapters begin with an overview of the various forms of modern steel and steel–concrete composite bridges as well as current design codes. This is followed by self-contained chapters concerning: nonlinear material behavior of the bridge components, applied loads and stability of steel and steel–concrete composite bridges, and design of steel and steel–concrete composite bridge components. Constitutive models for construction materials including material non-linearity and geometric non-linearity The mechanical approach including problem setup, strain energy, external energy and potential energy), mathematics behind the method Commonly available finite elements codes for the design of steel bridges Explains how the design information from Finite Element Analysis is incorporated into Building information models to obtain quantity information, cost analysis

LOVE YOURSELF AND LET THE OTHER PERSON HAVE IT YOUR WAY

CRANE RUNWAY GIRDERS

PROBABILISTIC SAFETY ASSESSMENT FOR OPTIMUM NUCLEAR POWER PLANT LIFE MANAGEMENT (PLIM)

THEORY AND APPLICATION OF RELIABILITY ANALYSIS METHODS FOR MAJOR POWER PLANT COMPONENTS

Elsevier Probabilistic safety assessment methods are used to calculate nuclear power plant durability and resource lifetime. Successful calculation of the reliability and ageing of components is critical for forecasting safety and directing preventative maintenance, and Probabilistic safety assessment for optimum nuclear power plant life management provides a comprehensive review of the theory and application of these methods. Part one reviews probabilistic methods for predicting the reliability of equipment. Following an introduction to key terminology, concepts and definitions, formal-statistical and various physico–statistical approaches are discussed. Approaches based on the use of defect-free models are considered, along with those using binomial distribution and models based on the residual defectiveness of structural materials. The practical applications of probabilistic methods for strength reliability are subsequently explored in part two. Probabilistic methods for increasing the reliability and safety of nuclear power plant components are investigated, as are the use of such methods for optimising non-destructive tests, hydraulic tests, technical certification and planned-preventative maintenance. Finally, the book concludes with information on the use of probabilistic methods in ensuring leak tightness of nuclear power plant steam generator heat exchanger pipes. With its distinguished authors, Probabilistic safety assessment for optimum nuclear power plant life management is a valuable reference for all nuclear plant designers, operators, nuclear safety engineers and managers, as well as academics and researchers in this field. Discusses the theory and application of probabilistic safety assessment methods used to calculate nuclear power plant (NPP) durability and lifetime Reviews probabilistic methods in their application to NPP components and ageing pipelines for the forecasting of NPP resource lifetime and safety Addresses the key areas of probabilistic safety analysis, optimization of the operations through in-service inspection (ISI) utilising non-

destructive testing, and maintenance, service and repair approaches

NON-DESTRUCTIVE TESTING OF WELDS

VISUAL TESTING OF FUSION-WELDED JOINTS

STRUCTURAL ALLOYS FOR POWER PLANTS

OPERATIONAL CHALLENGES AND HIGH-TEMPERATURE MATERIALS

Elsevier Current fleets of conventional and nuclear power plants face increasing hostile environmental conditions due to increasingly high temperature operation for improved capacity and efficiency, and the need for long term service. Additional challenges are presented by the requirement to cycle plants to meet peak-load operation. This book presents a comprehensive review of structural materials in conventional and nuclear energy applications. Opening chapters address operational challenges and structural alloy requirements in different types of power plants. The following sections review power plant structural alloys and methods to mitigate critical materials degradation in power plants.

MULTIAXIAL FATIGUE

SAE International

CRANE STABILITY ON SITE

AN INTRODUCTORY GUIDE

Fully revised and updated in 2003 to take into account changes in legislation and best practice. Cranes are some of the most widely operated items of plant on construction sites. But, if misused, they can cause serious harm. This guide gives a thorough step-by-step breakdown of the thought processes involved to ensure that a crane remains stable at all times. It gives information on the various factors which you should consider when planning the use on site of both mobile and tower cranes, including type and choice of crane, loading cases, ground conditions and foundation details. Diagrams, symbols, tables and checklists enhance the text throughout. The guide also includes references to other topical material on the subject, while a number of accident case studies, with dramatic photographs, alert readers to the dos and don'ts of crane use.

CULTIVATING CURIOUS AND CREATIVE MINDS

THE ROLE OF TEACHERS AND TEACHER EDUCATORS

Teacher Education Yearbook (Ha Presents a plethora of approaches to developing human potential in areas not conventionally addressed. Organized in two parts, this international collection of essays provides viable educational alternatives to those currently holding sway in an era of high-stakes accountability.

AN ARCHITECTURE FOR A ROBOT HIERARCHICAL CONTROL SYSTEM

INTERNATIONAL TRADE AND FOREIGN DIRECT INVESTMENT

"In a world of increasing globalization, where political, economic and technological barriers are rapidly disappearing, the ability of the European Union and its Member States to participate in global activity is an important indicator of their performance and competitiveness. In order to remain competitive, modern day business relationships extend well beyond the traditional foreign exchange of goods and services. International trade may be complemented or substituted by producing (and often selling) goods and services in countries other than where an enterprise was first established: this approach is known as foreign direct investment (FDI). The aim of this pocketbook is to give an overview of the external dimension of the EU economy by presenting, in a compact way, the available data on trade in goods, trade in services, and foreign direct investments."--Editor.

THE FLORA OF TROPICAL EAST AFRICA

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