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KEY=ANALYSIS - LYRIC JOHNSON

HYDRAULIC POWER SYSTEM ANALYSIS

CRC Press The excitement and the glitz of mechatronics has shifted the engineering community's attention away from fluid power systems in recent years. However, fluid power still remains advantageous in many applications compared to electrical or mechanical power transmission methods. Designers are left with few practical resources to help in the design and

ADVANCES IN MECHANICAL ENGINEERING AND TECHNOLOGY

PROCEEDINGS OF 6TH INTERNATIONAL CONFERENCE ON ADVANCED PRODUCTION AND INDUSTRIAL ENGINEERING (ICAPIE) - 2021

Springer Nature

THE FINITE ELEMENT METHOD AND APPLICATIONS IN ENGINEERING USING ANSYS®

Springer This textbook offers theoretical and practical knowledge of the finite element method. The book equips readers with the skills required to analyze engineering problems using ANSYS®, a commercially available FEA program. Revised and updated, this new edition presents the most current ANSYS® commands and ANSYS® screen shots, as well as modeling steps for each example problem. This self-contained, introductory text minimizes the need for additional reference material by covering both the fundamental topics in finite element methods and advanced topics concerning modeling and analysis. It focuses on the use of ANSYS®

through both the Graphics User Interface (GUI) and the ANSYS® Parametric Design Language (APDL). Extensive examples from a range of engineering disciplines are presented in a straightforward, step-by-step fashion. Key topics include: • An introduction to FEM • Fundamentals and analysis capabilities of ANSYS® • Fundamentals of discretization and approximation functions • Modeling techniques and mesh generation in ANSYS® • Weighted residuals and minimum potential energy • Development of macro files • Linear structural analysis • Heat transfer and moisture diffusion • Nonlinear structural problems • Advanced subjects such as submodeling, substructuring, interaction with external files, and modification of ANSYS®-GUI Electronic supplementary material for using ANSYS® can be found at <http://link.springer.com/book/10.1007/978-1-4899-7550-8>. This convenient online feature, which includes color figures, screen shots and input files for sample problems, allows for regeneration on the reader's own computer. Students, researchers, and practitioners alike will find this an essential guide to predicting and simulating the physical behavior of complex engineering systems."

MATERIALS, TECHNOLOGIES AND QUALITY ASSURANCE

Trans Tech Publications Ltd Volume is indexed by Thomson Reuters BCI (WoS). The presented collection of scientific papers is focused on materials, technologies and quality assurance in the field of machines and equipment. These topics are among the fundamental research fields at the Faculty of Engineering of the Slovak University of Agriculture in Nitra. The collection contains the selection of scientific papers that present knowledge resulting from work on scientific projects supported by the Structural Funds of the European Union: Operational Programme Education ITMS 26110230020 □ Development of human resources and quality assurance at the Slovak University of Agriculture in Nitra; Operational Programme Education ITMS 261102230057 □ To increase the quality of education at the Slovak University of Agriculture in Nitra and to achieve its adaptation to current and prospective needs of society (QEDU); Operational Programme Research and Development ITMS 26220220014 □ Application of information technologies to increase the environmental and economic sustainability of production agrosystem (ITEPAg) as well as scientific projects supported by the Ministry of Education, Science, Research and Sport of the Slovak Republic: VEGA No 1/0576/09 □ Increasing the quality of agricultural machines and production equipment; VEGA No 1/0813/10 □ Degradation of metallic materials in the processes of production and exploitation of alternative fuels; VEGA No 1/0462/09 □ Elimination of unfavourable impacts of machinery on agricultural land, water and air; and VEGA No 1/0857/12 □ Reducing of unfavourable impacts of agricultural and transport machinery on environment. Experiments presented in the papers were performed in internal laboratories of the

Faculty of Engineering (SUA in Nitra) as well as in close cooperation with the companies Inweld Consulting, s.r.o. Vráble; Sandvik Coromant, s.r.o. Bratislava, Bibus SK, s.r.o. Nitra, Slovintegra Energy, s.r.o. Levice; Veolia Transport Services, s.r.o.; Slovnaft, a.s. Bratislava; and Intertribodia, s.r.o. Part of experiments was performed in cooperation with foreign universities, namely the VUB Technical University of Ostrava and the Czech University of Life Sciences Prague. Knowledge presented in the contributions focuses on materials, increasing the reliability of machines and equipment, increasing the quality of production and ultimately increasing the economic effectiveness and market competitiveness.

RELIABILITY, SAFETY AND HAZARD ASSESSMENT FOR RISK-BASED TECHNOLOGIES

PROCEEDINGS OF ICRESH 2019

Springer Nature This volume presents selected papers from the International Conference on Reliability, Safety, and Hazard. It presents the latest developments in reliability engineering and probabilistic safety assessment, and brings together contributions from a diverse international community and covers all aspects of safety, reliability, and hazard assessment across a host of interdisciplinary applications. This book will be of interest to researchers in both academia and the industry.

CONTINUOUSLY VARIABLE TRACTOR TRANSMISSIONS

ADVANCED TECHNOLOGIES FOR SUSTAINABLE SYSTEMS

SELECTED CONTRIBUTIONS FROM THE INTERNATIONAL CONFERENCE ON SUSTAINABLE VITAL TECHNOLOGIES IN ENGINEERING AND INFORMATICS, BUE ACE1 2016, 7-9 NOVEMBER 2016, CAIRO, EGYPT

Springer This book reports on cutting-edge technologies that have been fostering sustainable development in a variety of fields, including built and natural environments, structures, energy, advanced mechanical technologies as well as electronics and communication technologies. It reports on the applications of Geographic Information Systems (GIS), Internet-of-Things, predictive maintenance, as well as modeling and control techniques to reduce the environmental impacts of buildings, enhance their environmental contribution and positively impact the social equity. The different chapters, selected on the basis of their timeliness and relevance for an audience of engineers and professionals, describe the major trends in the field of sustainable engineering research, providing them with a snapshot of current issues together with important technical information for their daily work, as well as an interesting source of new ideas for their future research. The works included in this book were selected among the contributions to the BUE ACE1, the first event, held in Cairo, Egypt, on 8-9 November 2016, of a series of Annual Conferences &

Exhibitions (ACE) organized by the British University in Egypt (BUE).

INTERNATIONAL SCIENTIFIC CONFERENCE ENERGY MANAGEMENT OF MUNICIPAL TRANSPORTATION FACILITIES AND TRANSPORT EMMFT 2017

Springer This book includes the proceedings of the 19th International Scientific Conference “Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017”, which was held in Khabarovsk, Russia on 10-13 April 2017. The book presents the research findings of scientists working at universities in the Far Eastern, Siberian and Ural Federal Districts of Russia, and of Serbia, which are unique regions notable for sustainably operating complex transport infrastructures in severe climatic and geographic environments. It also offers practical insights into transportation operation under such conditions. The book discusses the experiences of colleagues from Slovenia, Ukraine and Latvia in the development of transport infrastructure and construction of transport facilities and features and includes the results of a wide range of studies, such as managing multimodal transportation, improving the efficiency of locomotives, electric locomotives, traction substations, electrical substations, relay protection and automation devices, and power-factor correction units. It addresses topics like renewable energy sources, problems of the mathematical and simulation modelling of electromagnetic processes of electrical power objects and systems, aspects of cost reduction for fuel-and-power resources, theoretical aspects of energy management, development of transport infrastructure, modern organizational and technological solutions in construction, new approaches in the field of management, analysis and monitoring in transport sector. Comprising 142 high-quality articles covering a wide range of topics, these proceedings are of interest to anyone engaged in transport engineering, electric power systems, energy management, construction and operation of transport infrastructure buildings and facilities.

THE MECHANICS OF TRACTOR-IMPLEMENT PERFORMANCE

THEORY AND WORKED EXAMPLES

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TRADEMARKS

ADVANCES IN FLUID DYNAMICS WITH EMPHASIS ON MULTIPHASE AND COMPLEX FLOW

WIT Press The field of fluid mechanics is vast and has numerous and

diverse applications. Presented papers from the 11th International Conference on Advances in Fluid Dynamics with emphasis on Multiphase and Complex Flow are contained in this book and cover a wide range of topics, including basic formulations and their computer modelling as well as the relationship between experimental and analytical results. Innovation in fluid-structure approaches including emerging applications as energy harvesting systems, studies of turbulent flows at high Reynold number, or subsonic and hypersonic flows are also among the topics covered. The emphasis placed on multiphase flow in the included research works is due to the fact that fluid dynamics processes in nature are predominantly multi-phased, i.e. involving more than one phase of a component such as liquid, gas or plasma. The range of related problems of interest is vast: astrophysics, biology, geophysics, atmospheric processes, and a large variety of engineering applications. Multiphase fluid dynamics are generating a great deal of interest, leading to many notable advances in experimental, analytical, and numerical studies in this area. While progress is continuing in all three categories, advances in numerical solutions are likely the most conspicuous, owing to the continuing improvements in computer power and the software tools available to researchers. Progress in numerical methods has not only allowed for the solution of many practical problems but also helped to improve our understanding of the physics involved. Many unresolved issues are inherent in the very definition of multiphase flow, where it is necessary to consider coupled processes on multiple scales, as well as the interplay of a wide variety of relevant physical phenomena.

MECHANICAL FAULT DIAGNOSIS AND CONDITION MONITORING

Springer Science & Business Media Although the most sophisticated fault diagnosis and condition monitoring systems have their origin in the aerospace and nuclear energy industries, their use is by no means restricted to such areas of 'high technology'. Modern machinery in most industrial plants is now so complex and expensive that mechanics find it increasingly difficult to detect failure by, for instance, recognising changes in sound 'signatures', and few plants can afford the luxury of regular 'stripping down'. Increasingly, therefore, eady-warning devices are being employed in an effort to prevent catastrophic breakdown. This book provides the first co-ordinated compilation of fault diagnosis and condition monitoring devices. It proceeds in three logical steps. The eady chapters deal with those conditions which contribute to deterioration and the consequent likely development of faults. The middle part of the book considers the various tech niques of monitoring and discusses the criteria for their selection in different situ ations. The final chapters provide a guide to the interpretation of the information signals deriving from monitoring, relating to reliability science and the mathematics of probability, and thus providing decision data on which management can

act.

ARCHIVES OF ACOUSTICS QUARTERLY

MECHATRONIC SYSTEMS 1

APPLICATIONS IN TRANSPORT, LOGISTICS, DIAGNOSTICS, AND CONTROL

Routledge The subject of the first volume is the issues related to the components and systems of transport machines. Motor vehicle systems tests are described: suspension dampers, steering, brakes and differentials. Design issues of machine elements operating in extreme conditions are also addressed. The possibility of increasing wear resistance in high-speed and ethanol-powered engines is analyzed. An extensive part covers the dynamics of hydraulic, electro-hydraulic and mechanical-hydraulic systems and the issues of diagnostics and automatic control in such systems. Aspects of the regional system of motor transport, public transport and transport and logistics of agricultural machinery are also addressed. The volume also examines selected technical and economic issues of gas transport. Topics on modelling of production processes with the transport of products are a complement.

ADVANCED DESIGN TECHNOLOGY, ADME 2011

Trans Tech Publications Ltd This book, containing only papers subjected to strict peer-review by experts, covers the subject areas of innovative design methodology, product life-cycle design, intelligent optimization design, structural strength and robustness, reverse engineering, green design and manufacturing, design for sustainability, dynamics of machinery, new mechanisms and robotics, driven-train mechanisms, complex electro-mechanical system design, advanced CAE techniques and other related topics. It thus represents a veritable handbook guide to the topics covered.

THE ENGINEERING INDEX

SYSTEMATIC ANALYSIS OF GEAR FAILURES

ASM International Explores the detailed steps necessary to determine the causes of failure. First, the physical characteristics of a gear are studied: where the stress points are, from what directions the forces are applied, where the movement of material progresses, and where strain patterns exist. Second, all external conditions and forces are considered. With this background information, a systematic examination is described from beginning to end, the end being a conclusion about the mode and cause of failure.

THE ENGINEERING INDEX ANNUAL FOR ...

HANDBOOK OF RESEARCH ON SMART COMPUTING FOR RENEWABLE ENERGY AND AGRO-ENGINEERING

IGI Global The rise in population and the concurrently growing consumption rate necessitates the evolution of agriculture to adopt current computational technologies to increase production at a faster and smoother scale. While existing technologies may help in crop processing, there is a need for studies that seek to understand how modern approaches like artificial intelligence, fuzzy logic, and hybrid algorithms can aid the agricultural process while utilizing energy sources efficiently. The Handbook of Research on Smart Computing for Renewable Energy and Agro-Engineering is an essential publication that examines the benefits and barriers of implementing computational models to agricultural production and energy sources as well as how these models can produce more cost-effective and sustainable solutions. Featuring coverage on a wide range of topics such as bacterial foraging, swarm intelligence, and combinatorial optimization, this book is ideally designed for agricultural engineers, farmers, municipal union leaders, computer scientists, information technologists, sustainable developers, managers, environmentalists, industry professionals, academicians, researchers, and students.

AGRICULTURAL ENGINEERING

AN INTRODUCTION TO AGRICULTURAL ENGINEERING

NestFame Creations Pvt Ltd. Agricultural engineering includes appropriate areas of mechanical, electrical, environmental, and civil engineering, construction technology, hydraulics, and soil mechanics. Agricultural engineers attempt to solve agricultural problems concerning power supplies, the efficiency of machinery, the use of structures and facilities, pollution and environmental issues, and the storage and processing of agricultural products. Agricultural engineers work in a variety of industries. Some work for the federal government, and others provide engineering contracting or consultation services, or work for agricultural machinery manufacturers. Although they work mostly in offices, they also may spend time traveling to agricultural settings. If you become an agricultural engineer, your work will often revolve around two issues: a growing world population and the reduction of farmland. You may have to figure out how to keep land fertile when over-planting drains it of essential minerals, find a way to water crops without depleting water sources or create methods of growing more crops in smaller areas of land. The first thing you'll do as an agricultural engineer is to examine the problem. For example, you may examine a crop that grew well but is now failing even though the farmer hasn't changed anything. You'll look at contributing factors like erosion, seed quality and mineral depletion. You'll analyze the irrigation system to see if it needs to be altered or if the water has become

contaminated. Your job as an agricultural engineer will be to discover what factors cause this problem and ways to solve it. To do this, you'll have to understand hydration, biology, agriculture and a host of engineering systems. Once you understand what the problems are, you can begin to apply research and design skills. You might look at other cases that had the same problems and examine the solutions used in those instances. You may find that this area has unique challenges and a new type of equipment must be designed to address them. As an agricultural engineer, you may even be called upon to design a new type of packaging that preserves the crops longer after harvesting or prolongs the usability lifespan of a product after it's been processed. Here in this book one will acquire detailed information about subjects given below: 1,FUNDAMENTALS 2,ENGINEERING MECHANICS 3,FARM POWER 4,Hydrology and Water Resources Engineering 5,IRRIGATION AND DRAINAGE ENGINEERING 6,PRINCIPLES AND PRACTICES OF CROP PRODUCTION 7,PRINCIPLES OF AGRICULTURAL ENGINEERING 8,SOIL SCIENCE AND ENGINEERING 9,TRACTOR SYSTEMS AND CONTROLS

Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structure, soil and water conservation, and processing of agricultural products. Agricultural engineers work in a variety of industries. What Agricultural Engineers Do Agricultural engineers attempt to solve agricultural problems concerning power supplies, the efficiency of machinery, the use of structures and facilities, pollution and environmental issues, and storage and processing of agricultural products. Duties of Agricultural Engineers Use complete software to design equipment systems, or structures • Modify environmental factors that affects animal or crop production, such as airflow in a barn or runoff pattern on a field. • Test equipment to ensure its safety and reliability. • Oversee construction and production operations. • Plan and work together with clients, contractors, consultants, and other engineers to ensure effective and desirable outcomes. Agricultural engineers work in farming, including aquaculture (farming of seafood), forestry and food processing. They work on a wide variety of projects for example, some agricultural engineers work to develop climate control systems that increases the comfort and productivity of livestock, whereas other work to increase the storage capacity and efficiency refrigeration. Many agricultural engineers attempt it develop better solutions for arrival waste disposal. Those with computer programing skills work to integrate artificial intelligence and geospatial systems into agriculture for example, they work to improve efficiency in fertilizer application or to automate harvesting systems. Important Qualities for Agricultural Engineers • Analytical skills. Agricultural engineers must analyze the needs of complex systems that involve workers, crops, animals, machinery and equipment and the environment. • Communication skills. Agricultural engineers must understand the needs of clients, workers, and others working on a project. More so, they must communicate their thoughts about systems and solutions to any problems

they have been working on. • **Math skills.** Agricultural engineers use calculators, trigonometry and other advanced mathematical disciplines for analysis, design and troubleshooting. • **Problem-solving skills.** Agricultural engineers' main role is to solve problems found in agricultural production. Goals may include designing safer equipment for food processing or reducing erosion. To solve these problems agricultural engineers must creatively apply the principles of engineering.

ADVANCED AGRO-ENGINEERING TECHNOLOGIES FOR RURAL BUSINESS DEVELOPMENT

IGI Global Developing countries need access to the technological advancements of the modern world in order to apply these advancements to their small-scale operations. Applying newly discovered information concerning efficient energy to remote corners of the world will ensure small-scale businesses can conduct successful production and sale of agricultural products. **Advanced Agro-Engineering Technologies for Rural Business Development** is an essential reference source that examines technological methods and technical means that ensure the organization of production of various products and adapts them for application in small-scale production. Additionally, it seeks to organize an efficient production process in the face of energy resource scarcity and emphasizes the need to rationally use them. This book is ideally designed for students, managers, experts, and small businesses.

APPLIED MECHANICS REVIEWS

INTELLIGENT COMPUTING AND OPTIMIZATION

PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND OPTIMIZATION 2020 (ICO 2020)

Springer Nature Third edition of International Conference on Intelligent Computing and Optimization and as a premium fruit, this book, pursue to gather research leaders, experts and scientists on Intelligent Computing and Optimization to share knowledge, experience and current research achievements. Conference and book provide a unique opportunity for the global community to interact and share novel research results, explorations and innovations among colleagues and friends. This book is published by SPRINGER, Advances in Intelligent Systems and Computing. Ca. 100 authors submitted full papers to ICO'2020. That global representation demonstrates the growing interest of the research community here. The book covers innovative and creative research on sustainability, smart cities, meta-heuristics optimization, cyber-security, block chain, big data analytics, IoTs, renewable energy, artificial intelligence, Industry 4.0, modeling and simulation. We editors thank all authors and reviewers for their important service. Best high-quality papers have been selected by the International PC for our premium series with

SPRINGER.

R & D WORKSHOP-PROCEEDINGS, 9-10 DECEMBER 1983

Research and development in engineering industry in India.

AGRICULTURAL ENGINEERING

PROCEEDINGS OF THE 11TH INTERNATIONAL CONGRESS, DUBLIN, 4-8 SEPTEMBER 1989

CRC Press A broad coverage of basic & applied research projects dealing with the application of engineering principles to both food production & processing. Land and water use; Agricultural buildings; Agricultural mechanisation; Power & processing; Management & ergonomics. About 450 papers from over 50 countries worldwide.

THE CHALLENGE OF SUSTAINABILITY IN AGRICULTURAL SYSTEMS

VOLUME 2

Springer Nature This book brings together segmental knowledge and creates new insights on the sustainability of agricultural systems, critically analyzing not only individual system components, but also focusing on interactions between them and external environments. This book is primarily devoted to (1) agricultural agribusiness, (2) policies and institutions, and (3) farming systems. The compelling collection of chapters presents critical, comparative, and balanced perspectives on what changes are needed to achieve and maintain sustainability in agricultural systems, actively leading to new ways of thinking about these complex issues. The research presented relies on an array of methods developed within complex systems science, addresses the existing gaps in the scholarship, and uses original data collected on the development of agricultural systems. Finally, the authors provide robust conclusions and recommendations for both scholars and practitioners in the field of studying, constructing, and maintaining sustainable agricultural systems. The special focus of the book is on technologies, policies, and management systems enabling sustainable agricultural development. A rich collection of practical cases could be used to move from theories to reality. The book appeals to both academics and professionals working in the field.

MACHINE ELEMENTS

LIFE AND DESIGN

CRC Press Focusing on how a machine "feels" and behaves while operating, Machine Elements: Life and Design seeks to impart both intellectual and emotional comprehension regarding the "life" of a machine. It presents a detailed description of how machines elements function, seeking to form a

sympathetic attitude toward the machine and to ensure its wellbeing through more careful and proper design. The book is divided into three sections for accessibility and ease of comprehension. The first section is devoted to microscopic deformations and displacements both in permanent connections and within the bodies of stressed parts. Topics include relative movements in interference fit connections and bolted joints, visual demonstrations and clarifications of the phenomenon of stress concentration, and increasing the load capacity of parts using prior elasto-plastic deformation and surface plastic deformation. The second part examines machine elements and units. Topics include load capacity calculations of interference fit connections under bending, new considerations about the role of the interference fit in key joints, a detailed examination of bolts loaded by eccentrically applied tension forces, resistance of cylindrical roller bearings to axial displacement under load, and a new approach to the choice of fits for rolling contact bearings. The third section addresses strength calculations and life prediction of machine parts. It includes information on the phenomena of static strength and fatigue; correlation between calculated and real strength and safety factors; and error migration.

TECHNICAL ASPECTS OF CRITICAL MATERIALS USE BY THE STEEL INDUSTRY

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

THE SHOCK AND VIBRATION DIGEST

A PUBLICATION OF THE SHOCK AND VIBRATION INFORMATION CENTER, NAVAL RESEARCH LABORATORY

FARM MACHINE DESIGN ENGINEERING

HIGHWAY SAFETY LITERATURE

WAVELET ACTIVE MEDIA TECHNOLOGY AND INFORMATION PROCESSING

(IN 2 VOLUMES)

BIBLIOGRAPHY OF AGRICULTURE

DIGITIZING PRODUCTION SYSTEMS

SELECTED PAPERS FROM ISPR2021, OCTOBER 07-09, 2021 ONLINE, TURKEY

Springer Nature This book contains selected papers from International Symposium for Production Research 2021, held on October 7-9, 2021,

online, Turkey. The book reports recent advances in production engineering and operations. It explores topics including production research; production management; operations management; industry 4.0; industrial engineering; mechanical engineering; engineering management; and operational research. Presenting real-life applications, case studies, and mathematical models, this book is of interest to researchers, academics, and practitioners in the field of production and operation engineering. It provides both the results of recent research and practical solutions to real-world problems.

NBSIR.

TECHNICAL ASPECTS OF CRITICAL MATERIALS USE BY THE STEEL INDUSTRY: B. PROCEEDINGS OF A PUBLIC WORKSHOP "TRENDS IN CRITICAL MATERIALS REQUIREMENTS FOR STEELS OF THE FUTURE; CONSERVATION AND SUBSTITUTION TECHNOLOGY FOR CHROMIUM."

FORENSIC ENGINEERING:

THE ART AND CRAFT OF A FAILURE DETECTIVE

CRC Press Forensic Engineering: The Art and Craft of a Failure Detective synthesizes the current academic knowledge, with advances in process and techniques developed in the last several years, to bring forensic materials and engineering analysis into the 21st century. The techniques covered in the book are applied to the myriad types of cases the forensic engineer and investigator may face, serving as a working manual for practitioners. Analytical techniques and practical, applied engineering principles are illustrated in such cases as patent and intellectual property disputes, building and product failures, faulty design, air and rail disasters, automobile recalls, and civil and criminal cases. Both private and criminal cases are covered as well as the legal obligation, requirements, and responsibilities under the law, particularly in cases of serious injury or even death. Forensic Engineering will appeal to professionals working in failure analysis, loss adjustment, occupational health and safety as well as professionals working in a legal capacity in cases of produce failure and liability—including criminal cases, fraud investigation, and private consultants in engineering and forensic engineering.

PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING (ICIE 2019)

VOLUME I

Springer Nature This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed,

including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 5th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in March 2019. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

BIBLIOGRAPHY OF AGRICULTURE WITH SUBJECT INDEX
