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Nota di contenuto	Improving the Efficiency of Fruit Tree Sprayers -- Refractory Materials Manufacturing Based on Sewage Sludge -- Increasing the Efficiency of the Technological Process of Processing Castor-oil Seeds Into Castor Oil -- Mechanism of technical service investment in agriculture -- Location of social capital in the labor protection of the enterprise -- Defining Stability of Technological Process of Growing Fruit Crops Seedlings -- Design of Functional Surfaces in CAD-system of SolidWorks via Specialized Software -- Seed Material Size Influence on its Uniform Sowing Unit Delivery -- Agrobiological as well as Mechanical and Technological Framework of Development of the Harvesting Technology with the Method of Grain Crops Combing in Standing Position -- Simulation of Cereal Crops Harvesting Using the Method of Grain Crops Combing in Standing Position in Conditions of Farming Enterprises -- Software development for the security of TCP-connections -- The Formation of Orthogonal Balanced Experiment Designs Based on Special Block Matrix Operations on the Example of

the Mathematical Modeling of the Pneumatic Gravity Seed Separator -- The Parameters Substantiation of Seed Drill Capacity for Stone Crop Seeds -- Methodological Aspects of Determining Parameters of a Scalper-Type Air-Sieved Separator Airflow -- Theoretical Aspects of Plant Material Sealing in a Wedge-Shaped Canal -- Study of Hydromechanical Parameters Part of the Water Solutions Household in Running Flows -- The Efficiency of Tractor Application with Articulated Frame for Cultivating Arable Crops -- Operating Conditions Influence on the Change of Functional Characteristics for Mechatronic Systems with Orbital Hydraulic Motors -- Increase in durability of motor crankshaft pin surface by vibrorolling -- The Coefficient Determination of a Damper Washer Hydraulic Resistance for Reducing Technical Module Oscillation Amplitude -- Generalization of Factors of Milk Homogenization -- Setting Ground Dimension-Type Series-Tillage Fertilizing, Sowing Complexes for Growing Grain Crops -- Consulting Services in Agriculture -- Development of Technology for the Hemp Stalks Preparation -- Theoretical Studies of Stable Exploitation Conditions of a Three-wheeled Tractor on the Fields Slopes -- Research of the Cereal Materials Micronizer for Fodder Components Preparation in Animal Husbandry -- Grains Dynamic Strength Determination and the Optimal Combination of Components of a Diamondiferous Layer of Grinding Wheels -- Application of Phenoclimatographic Models in Stone Fruits Protecting From Spring Frosts -- Vacuum cooling technology for pre-cooling of cherry fruits -- Sowing Units for Drilling Vegetable Crops -- Examining the creative potential of engineering students -- Development of communicative competence as a precondition of competitive software engineer formation -- Analysis of Main Process Characteristics of Infrared Drying in the Moving Layer of Grain Produce -- Geometrical Parameters for Distribution Systems of Hydraulic Machines -- Mathematical Model Changing the Value of the Process of Leakage Current in 0.38 kV Networks -- Experimental Study of Positive Influence on Growth of Seeds of Electric Field a High Voltage -- The usage of electricity charged aerosol for greenhouse cooling: problems and prospects -- Development of a Motor Speed Observer for an Electrified Soil-Cultivating Motoblock -- Experimental Investigations of Functional Properties of Biofuel Processed in the Electrotechnological Complex -- Hybrid Power System Stochastic Optimization -- Energy Saving in the Technological Process of the Grain Grinding -- Determination of the Duration of Spherical Shape Berries Freezing Under the Conditions Stationary Heat Flow -- Energy-Saving Control of Asynchronous Electric Motors for Driving Working Machines -- The Role of Social Capital in Development of Agricultural Entrepreneurship -- Methodological Aspects of Forming Mathematic Models of Management of Social-Economic Systems Development -- Modeling innovative economic activity of peasant farm -- Prospects of Ukraine on the World Market of Dairy Desserts -- Cognitive modeling in the regional strategic management -- Managing Competitiveness of the Enterprise: Theoretical-methodological Aspect -- International Ranking and Clustering Systems in Complex Evaluation of Demographic and Migration Processes -- Ukraine in the context of the world organic production of agricultural products -- Development and incipience decentralization of authority in Ukraine and formation of its impact on local budgets financial capacity -- Analyses of Personnel Usage at Agricultural Enterprises -- Methodical approaches to implementation of financial bank stability -- Accounting and analytical methods for identifying risks of agricultural enterprises' sustainable development -- Managing of the Living Quality of Population in the Social Sphere --

Accounting essence of amortization policy -- Problems and prospects for development of family households in Ukraine -- Comprehensive Assessment of the White Roots Aroma -- Influence of the Growth Regulator Application Method on Antioxidant Plant System Activity of Winter Wheat (*Triticum Aestivum L.*) -- Effects of Different Dietary Selenium Sources Including Probiotics Mixture on Growth Performance, feed Utilization, Serum Biochemical Profile of Quails -- Influence of Oat Seed Extract Bioflavonoids on the Antioxidant Status of Geese -- Screening of Agricultural Raw Materials and Long-term Storage Products to Identify Bacillary Contaminants -- Development of Formulation and Quality Assessment of Fast-Cooking Grain Composition for Pregnant Women -- Innovative Technology of the Scoured Core of the Sunflower Seeds After Oil Expression for the Bread Quality Increasing -- Effect of Living Mulch on Chlorophyll Index, Leaf Moisture Content and Leaf Area of Sweet Cherry (*Prunus avium L.*) -- Modification of Modeling Methods Toxic Hepatodistrophy in Rats -- Technological Properties of Winter Wheat Grain Depending on the Ecological and Geographical Origin of a Variety and Weather Conditions -- Multicriteria Optimization of Quality Indicators of Sweet Cherryfruits of Ukrainian Selection During Freezing and Storage -- Effect of Preparations Methyure (6-methyl-2-mercaptop-4-hydroxypyrimidine) on Corn (*Zea Mays L.*) Biological Productivity under Saline Soil Conditions -- Sweet Ices with High Nutritional Value -- Nitrogen in Soil Profile and Fruits in the Intensive Apple Cultivation Technology -- Technological Indices of Spring Wheat Grain Depending on the Nitrogen Supply -- Use of Alternative Types of Fuel for Grain Drying -- Effect of Seed Sowing Period on Antioxidant Protection of Basil (*Ocimum Basilicum L.*) under Greenhouse Conditions -- Determining the Risks of the Production Environment of an Agricultural Enterprise -- Development of Emulsion Sauce Technology for Preventive Nutrition -- The Influence of AKM Growth Regulator on Photosynthetic Activity of Oilseed Flax Plants in the Conditions of Insufficient Humidification of the Southern Steppe of Ukraine -- Investigation of the Grinding Mode of the Enriched Wheat Products in the Rolling Mill 1- Grinding System of the Milling Mill of Wheat Grinding.

Sommario/riassunto

This book presents the latest trends and challenges in the development of general engineering and mechanical engineering in particular. Energy sector workers will benefit from findings that reveal innovative ways to solve electrical engineering challenges especially those based on the use of electro technologies. Agricultural and horticultural product processors will find the scientifically grounded recommendations in this book on extending the period of its storage, improving quality, etc. very useful and timely. The effectiveness of the practical application of the trends presented in this book is based on the results of relevant scientific research in the direction of the agricultural production, its economics, management, finance and marketing.
