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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

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The Parameters Substantiation of Seed Drill Capacity for Stone Crop  
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Homogenization -- Setting Ground Dimension-Type Series-Tillage  
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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-mercapto-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.