

Competency

3/104/2013

6 Methods of Selecting the Structure of Fundamental, Prognostic and Exploratory Research on the Basis of Standardized Procedures.

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New approaches to the formation of fundamental priorities, prognostic and exploratory researches on the basis of standardized procedures of verbal-numerical evaluation and optimization, providing a system link with the critical technology areas, the shape of an advanced weapons and the general procedure of military-technical planning are discussed

Key words: fundamental and exploratory research, scientific and technological potential, scientific backlog, scientific and technological backlog, technical systems, state order

12 Infrastructure Factors Impact on the Economy and Technological Development of the Country.

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The importance of metrological infrastructure for economic, scientific and technological development is obvious. The article shows the main systemic problems of infrastructure activities, provides information about the place of infrastructure in the system of human activity, the risks associated with an underestimation of its role and significance.

Key words: infrastructure, quality, impact, economy, science and technology development

18 The Role of Chromatography in Science and Industry.

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Any tools and equipment were used to study the composition and structure of matter. Whether a simple magnifier or a super electron microscope allows a person to discover new things. Many previously unknown facts about natural and man-made compounds we were able to find out using nuclear magnetic resonance, optical and mass spectrometry, plasma spectrometry and other analytical techniques used today by researchers. Yet, it is chromatography which produced a revolution, for the first time simultaneously separating and coloring a chemical composition of green chlorophyll [1]

Key words: chromatographic method, chemicals, highly pure chemicals

22 An Integrated Approach to a Medical Equipment Quality.

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Integrated approach to quality and reliability of medical equipment is highly needed. An example of axial-flow pump for circulatory support is given. The basis of such approach is complementing the organization of the quality management requirements for the distribution of responsibility, product verification and improving the bench testing of this unit

Key words: axial-flow pump for circulatory support, bench testing, model fluid

26 On Management Quality of Products.

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The problems of modern relationships and quality management and project management relationships are analyzed; some proposals concerning the role of organizational quality management systems in order to solve this problem are formulated

Key words: project management, quality management, quality management organizational system, project quality management

34 Economic Model of the Mechanism of Adaptive Quality Management.

Prof. Dr. T.P. Skvortsov, Senior Adviser, Server Consulting, Academician, Academy for Quality Problem, Melbourne, Australia

Economic model of production quality adaptive control on systemic risk on the basis of analogies is constructed. This model, according to the author, can be the basis of a new kind of production: the production of knowledge as the product of industrial production of the resource, which is the most important area for creating a real mechanism of organization modernization

40 The Concept of Personnel Risks Management in the Work with Organization Personnel.

A.E. Mitrofanova, Post Graduate, Human Resource Management Department, The State University of Management, Moscow.

Theoretical aspects of formation of the management concept by personnel risks in the organization are on consideration. The place of personnel risks management in a personnel management system is shown. Components of the concept are determined

Key words: personnel risks, human resource management, emergence of risk sphere, object of risk, risk source, damage of risk.

46 An Integrated Approach to the Quality and Safety Management.

Prof. Dr. N.I. Dunchenko, Academic Vice-President Timiryazev Russian State Agrarian University (MTAA), Academician, Russian Academy of Natural Sciences, Moscow, A.S. Remizova, Junior Research Fellow, Russian Research Institute of the Dairy Industry, Moscow

Standards structure and their key elements are described, areas of management systems integration that allow the company minimize risks, improve the quality and safety of products and as a consequence of customer satisfaction are identified

Key words: quality and safety tools, integrated management system, competitive products

52 Independent Logger of Permafrost Soils Temperature.

Dr. A.Yu. Nedelko, Senior Engineer, SCB JSC RPE, Etalon, Omsk

The effectiveness of geotechnical monitoring to ensure construction reliability and safety in the north is on consideration. Description of the logger with digital temperature sensors designed for geotechnical temperature monitoring of remote objects, such as permafrost soils is given

Key words: logger, digital temperature transmitter, geotechnical monitoring, thermometric well