

# Preface

To the attention of readers here is presented the special edition dedicated to the latest research results and practical solutions in the area of applied materials and materials processing technologies used in many branches of modern production, biomedicine, etc.

In recent years, the applications of smart textiles in sensors and mechatronics have been very popular and contributed to the wide development of the production of various types of functional clothing used both in medicine and sports for functional diagnostics in real-time, and, for example, in the space industry, etc. The development of various types of smart textiles, investigation of their properties, and functional clothing are the subjects of the first chapter.

Materials and production techniques of sensor devices and analysis of their metrological possibilities are presented in the second chapter.

The last chapter is dedicated to research results on the properties of some organic and inorganic materials that can be used in modern biomedical practice.

This special issue will be helpful to specialists in mechanical engineering, mechatronics, sensors and biomedical engineering.