

Preface

The presented special edition is dedicated to actual issues and the latest achievements in materials science and production technologies.

Modern polymer and composite materials, their mechanical properties, internal structure, synthesis methods, analysis of possible applications, etc. are the subject of the first chapter.

The protective coatings of alloy, steel and textile based on ceramics and graphene, structure investigation of tube-shaped elements produced by pressing of titanium powder and nanomechanics of axially graded viscoelastic carbon nanotubes are presented in the next two chapters.

The last chapter is dedicated to the analysis of materials' properties and related technologies used for soil remediation and wastewater treatment.

This special issue will be useful to many specialists in materials science, mechanical engineering and chemical technologies.