

Preface

This special edition is devoted mainly to the research results of modern reinforced and zircon-based composites, multifunctional carbon-based materials that can be used in many branches of the industrial sphere including microelectronics.

Mechanical properties and thermal analysis of fibre-reinforced composites and ceramic matrix composites, composites based on zirconia, etc. are the topics of the first two chapters.

Carbon materials - porous and nanosized, their mechanical-thermal properties, technologies of synthesis from biowaste and optical properties for film applications are inspected in the third chapter.

The last fourth part of this issue is devoted to the development of functional material for vibration isolation in machinery and field effect transistor (TFET) structure for application in magnetic sensing.

The book will be helpful to many specialists in applied materials science.