

# Preface

This edition presents a series of research results in materials science and technologies in mechanical engineering, biomedical engineering, environmental protection and construction.

The first three chapters are devoted to analysing properties, corrosion behaviour and corrosion protection of structural steels, alloys and functional materials.

A separate chapter is devoted to the study of the properties of materials for biomedical use and technologies in the practice of environmental protection.

In the last two chapters, the results of a study of the properties and technology of synthesis of modern building materials, including structural elements, are considered. The chapter related to sustainable building materials is particularly interesting, which analyses the properties and technologies of synthesis based on industrial and agricultural waste.

The presented book will be useful to many engineers and specialists in mechanical engineering, construction, biomedical engineering and environmental protection.