

Preface

This special edition contains papers representing the latest research results in polymers and composites, pharmacology, additive manufacturing, properties of structural metals and assessment of the load-bearing capacity of structural members of buildings.

Polymers, composites and biocomposites are a large group of modern structural and functional materials with a wide range of functional possibilities. The first chapter is devoted to researching these materials' properties and technologies of synthesis.

The next two chapters include the research results on the properties of materials for pharmacology and biomedical application, as well as structural metals for machinery application. Some technical and technological decisions in additive manufacturing and selective laser micromachining are presented in the fourth chapter.

The last chapter is devoted to issues of calculation and analysis of the load-bearing capacity of structural elements in modern building erection - concrete and wooden beams, columns.

The presented special collection will be helpful to engineers in machinery, applied materials science and construction.