

# Preface

This edition is devoted to analysing materials properties and materials processing, and synthesis technologies.

Structural metal materials such as steel and alloys, analysis of their properties, as well as welding, drilling, and quenching technologies are important topics in the separate part of this book.

The two special chapters present research results on the properties and technologies of polymers and composites processing and the practice of applying some chemical technologies and results of chemical materials synthesis.

Analysis and study of some biotechnologies (biodiesel production, palm oil transesterification, etc.) is the content of another important part of this special topics publication.

A separate section also presents the investigation and analysis of various technologies for functional ceramic materials synthesis.

This book will be helpful to a wide range of specialists in materials science, mechanical engineering and chemical engineering.