

## Preface

This publication presents the results of research in the field of metallurgy of structural alloys, their mechanical properties and the specifics of synthesis. The relationship between the microstructure of alloys and the peculiarities of methods of their production and processing is shown. The results of research on technologies of metal casting under pressure and cold extrusion of aluminum alloy are presented.

Many readers will be interested in the development of technologies for the treatment of both industrial and domestic wastewater. Here, attention should be focused on the use of biopolymers in wastewater treatment.

The use of solid-phase industrial waste in the production of modern building materials as a binder, filler or thermal insulation is a modern trend in the construction industry and meets the principles of sustainable development. Research related to this area is also presented in this issue.

This volume should be recommended to engineers and researchers in the fields of metallurgy, wastewater treatment and building materials production.