

Preface

The edition introduces the reader to the results of research and engineering developments in the field of applied materials science and related technologies.

The corrosion resistance of structural alloys is analyzed and the properties of various protective coatings are considered.

The results of studies of the properties and microstructure of various types of nickel-based superalloys are presented.

Close attention in the publication is also given to research on the properties of nanomaterials, analysis of technologies for their synthesis and related nanotechnologies.

A separate chapter is devoted to thin films used in microelectronics.

The book also discusses and analyzes the properties of various building materials, and the features of their production and practical use.

The presented book will be useful to engineers and researchers, teachers and students of relevant specialities.