

Preface

This book introduces readers to the results of research and technical solutions in materials science and applied technologies for a wide range of industry branches.

Materials and technologies in producing solar cells, printed electronic devices and fuel cells are considered in the first chapter, which will interest engineers in photovoltaics and fuel cell production.

The corrosion resistance of metal products and their operational failure are analysed in a separate chapter.

Readers' interest will also be attracted by the part of the book where the properties and features of composite materials are analysed.

Membrane technology for water purification and some aspects of modern biotechnologies are also considered in the presented edition.

A special place in the publication is occupied by chapters devoted to studying the properties of modern building materials and structural elements, as well as methods of technical supervision of the state of critical building structures.

The book will be helpful to a wide range of specialists in the machinery production, chemical and construction industries.