

## Preface

This publication introduces the reader to the results of research and engineering developments in materials science and technologies.

The corrosion resistance of diesel engine components was analysed using biodiesel and structural aluminium alloy.

Particular attention is paid to research on developing nanomaterials and nanotechnologies for application in mechanical engineering, chemical production and industrial waste processing. Two separate chapters are devoted to these problems.

The book also discusses the features of the production of bioplastic fertilisers and the features of monitoring the state of chicken meat during storage.

Separate chapters are devoted to functional materials and studying the properties of materials and structures used in photovoltaics and optoelectronics.

The presented book will be useful to engineers and researchers from the technical and technological areas mentioned above.