

Preface

This book represents the results of research and engineering developments in the field of modern engineering materials and technologies of their processing.

The study of the specifics of technologies for the processing of structural materials, the determination of optimal technological parameters, and the selection of materials and tools that meet technological requirements are today the basis of engineering preparation for production. In this edition, the reader will find some engineering solutions in this area.

Mechanical characterisation determination, studying processes of structural materials degradation and failure analysis are the important issues of materials science in modern machinery. A special section of the presented edition is devoted to these problems.

Modern concrete materials, processes for agricultural product processing and analysis of some innovations in textile manufacture are the topics of other parts of this publication.

This book will be helpful for specialists in materials science from many production branches.