

Preface

The following special edition is dedicated to the latest research findings and practical solutions in the field of structural materials and their processing, as well as chemical technologies for waste and biomass processing, food processing, and industrial measurements in textile manufacturing.

The first chapter analyzes various technologies for processing alloys, steel, polymers, and composite materials, such as forming, plasma arc machining, and additive manufacturing.

The second chapter examines the mechanical, electrical, and semiconductor properties of materials and thin films for optoelectronics and microelectronics applications.

The next two chapters are dedicated to studying the technology features of chemical and food production, waste treatment, and biomass processing.

The last, fifth chapter, presents a series of engineering solutions in the field of industrial measurements, monitoring, and testing of technological parameters in textile production.

This special edition will be valuable to many specialists in the field of recent manufacturing.