

Preface

This special edition presents a focused selection of research results addressing key aspects of materials engineering and sustainability. The contributions reflect current efforts to enhance material performance while minimising environmental impact across the industrial and construction sectors.

The chapters cover metallurgy and processing of steel and alloys, recycled materials, and green building materials, highlighting innovative approaches that support resource efficiency, circular economy principles, and sustainable development.

This edition is intended to provide researchers, engineers, and practitioners with concise insights into modern and environmentally responsible materials, technologies and engineering solutions.

We gratefully acknowledge the authors for their valuable contributions and the readers for their interest in this edition.