

Preface

The main topics of this special issue are corrosion, corrosion protection and protective coatings of machines and equipment components.

The first chapter is dedicated to topical issues of corrosion behaviour and means of corrosion protection of structural steel and alloys. Corrosion inhibitors, anti-corrosive coatings, corrosion control, analysis of metal corrosion behaviour in various aggressive environments, etc. are presented here.

The next chapter contains articles related to tribological engineering namely an analysis of properties and deposition methods of the various wear-protective and anti-friction coatings of machine components that work in various hard conditions.

The last chapter acquaints the reader with the results of studies of the electromechanical qualities of dielectric elastomers and the hollow cube structure of cobalt carbide mixed with graphene synthesized using coordination polymer for high-performance supercapacitor applications.

The special edition will be useful to many engineers in mechanical engineering.