

Preface

This special edition contains articles dedicated to the practice of designing technological equipment and machines, researching functional possibilities of existing and designing new equipment used for fire extinguishing goals.

The book consists of two chapters. The first chapter presents the engineering achievements related to the research and design of fast connector sockets, the selection of optimal parameters of rotary cavitation devices for processing oil blends and distillates, mechatronic decisions for intelligent surveillance systems and experimental study on the effect of direct metal laser sintering process parameters on build time and part accuracy of components.

The second chapter represents the results of designing and researching the parameters of modern devices used in fire-extinguishing works, testing of fire protection properties of materials and structures etc.

The special collection will be helpful to designers and engineers from mechanical engineering.