

Preface

The present book analyzes the basic problems of oscillation processes and theoretical aspects of noise and vibration in friction systems. The book presents generalized information available in the literature data and investigation results of authors in vibroacoustics of friction joints, including car brakes and transmissions. The authors consider the main approaches to abatement of noise and vibration in nonstationary friction processes. Special attention is paid to materials science aspects, in particular, to advanced composite materials used to improve vibroacoustic characteristics of tribopairs.

The book is intended for researchers and technicians, students, and postgraduates specializing in mechanical engineering, maintenance of machines and transport means, production certification, problems of friction, and vibroacoustics.

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