



materials



Special Issue Reprint

Use of Modern Materials in Technological Processes Accompanied by Frictional Heating

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Edited by
Aleksander Yevtushenko
Michal Kuciej

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This reprint contains 14 articles published in the Special Issue, “Use of Modern Materials in Technological Processes Accompanied by Frictional Heating”. These articles can be divided into five groups:

- 1) Analytical modeling of the frictional heating process in systems made of homogeneous and functionally gradient materials (FGMs) [1–7];
- 2) Numerical simulations of the temperature mode of railway brake systems [8, 9];
- 3) Experimental studies and numerical simulations of the influence of various types of additives added to the friction material in the wet clutch disc [10, 11];
- 4) Inverse thermal problems of friction [12];
- 5) The influence of friction on the stress distribution in a composite containing thin elastic homogeneous inclusions, or that made of FGM [13, 14].



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