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Sommario/riassunto	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].