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**Promising Types of Extraction Devices  
for the System of Solid Body-Liquid  
(Aspects of the Theory and Analysis of Structures)**

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**Key words and phrases:** classification of devices; extraction; mathematical models of processes; structures; ways of intensification.

**Abstract:** The necessity of extraction is described; the classification of the main types of extractors and theoretical aspects of the process are given; the design of devices is analyzed; the ways of intensification of process of extraction are discussed.

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