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THEORETICAL BASIS OF ACOUSTIC FINISHING-STRENGTHENING PROCESSING QUASIELASTICALLY ENVIRONMENT

In work the processes accompanying the acoustic finishing strengthening processing in quasi-elastic environments are considered. The structurally functional model of quality assurance of a blanket of the processed surfaces in case of this method of handling is constructed

Keywords: *quasi-elastic force, cavitation, vibrostabilization, viscous friction, SPD technology.*

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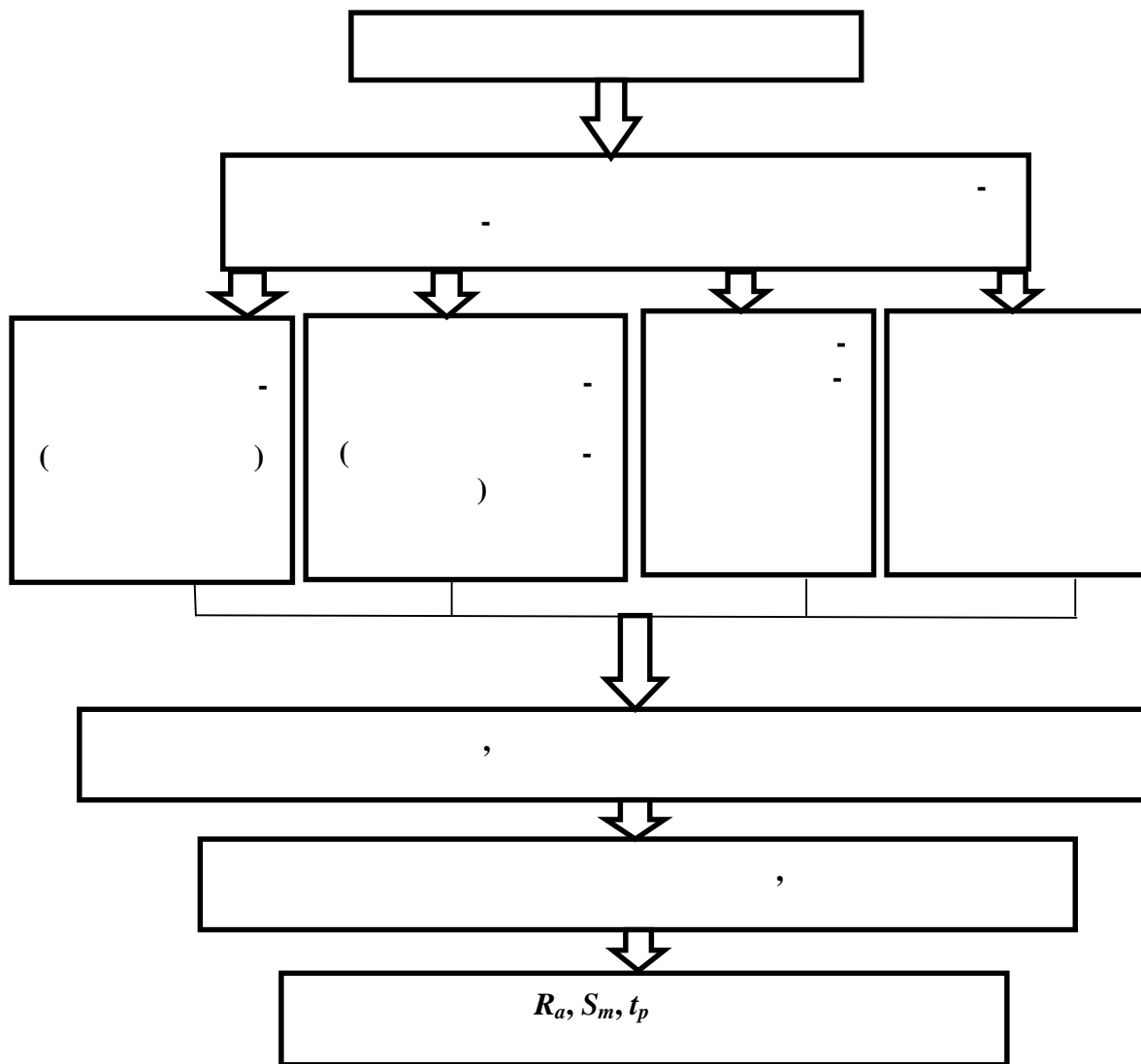
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 [1,2,3,4,5,6,7].

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[8, 10].

$$\begin{aligned} \vec{F} &= \vec{F} + \vec{F} + \vec{F} \\ \vec{F} &= -k_1 \cdot f \cdot \vec{A} \\ \vec{F} &= -k_2 \cdot \vec{A} \end{aligned} \tag{1}$$

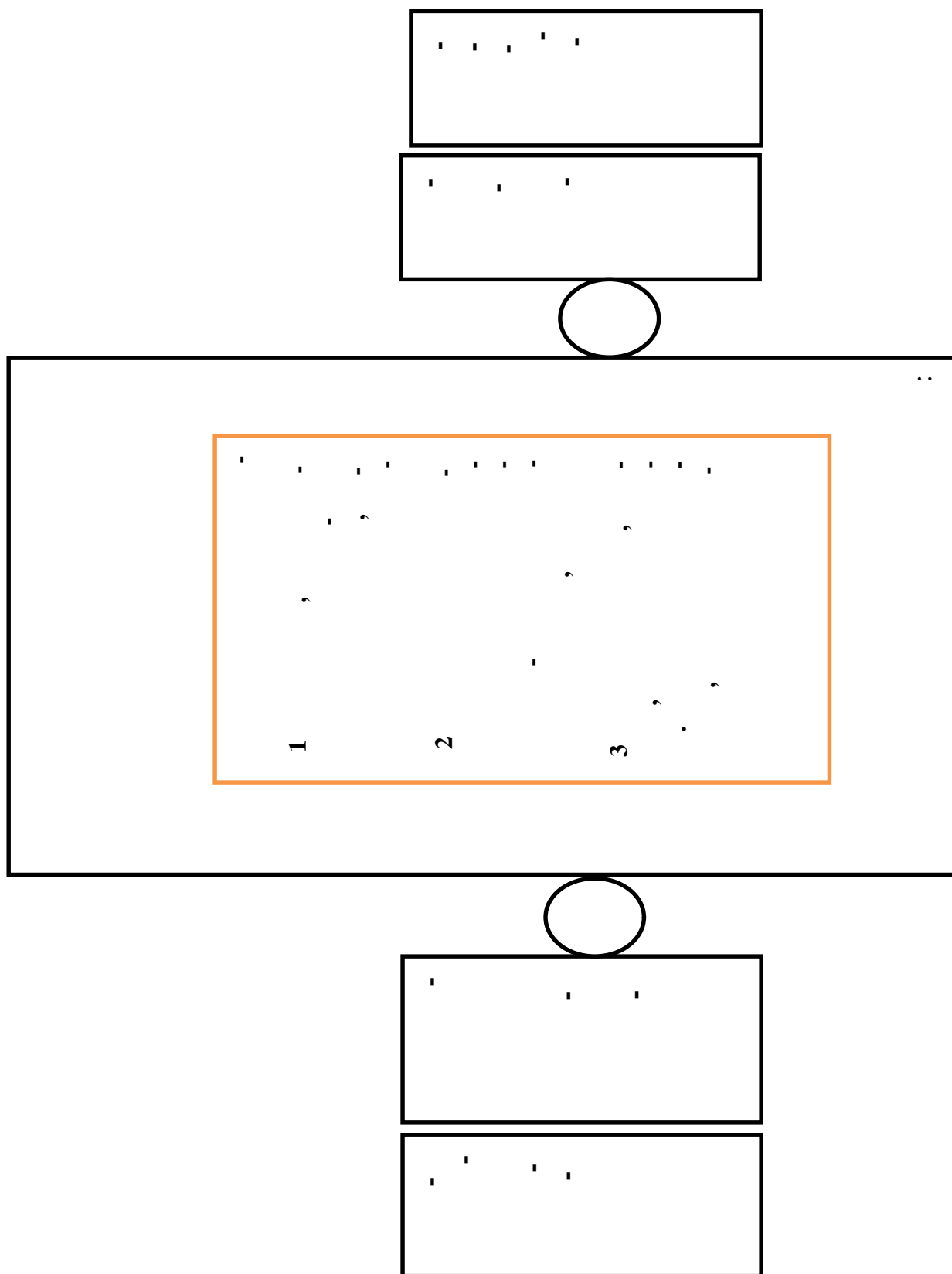
$k_1 -$

$S: k \sim S; f - ; k_2 -$

(Ra, Rv, S, Sm)

δ

$$\delta = Ra \cdot Sm \sqrt{\frac{HV}{HV}}, \tag{2}$$



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[10].

ABAQUS 6.11. [2,3,5]

[4,6].

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15.05.2016 .