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*Criterion that determines efficiency of ultrasonic method of control of rock stress is set.
 Conditions that determine the preliminary estimate of the use of ultrasound are defined.*

Key words: rock, stress condition, ultrasonic method, pressure.

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$$\Delta_{V_p} = \frac{\Delta V_p}{V_p} = \frac{\Delta V}{V} = \frac{t\sqrt{S^2}}{\sqrt{\frac{n-1}{n} + \frac{n-1}{n}} \cdot V} \quad (10)$$

$$\Delta_{V_p} = \frac{\Delta V_p}{V_p} = \frac{\Delta V}{V} = \frac{t\sqrt{S^2}}{\sqrt{\frac{n-1}{n} + \frac{n-1}{n}} \cdot V} \quad (1)$$

$$(1) V_p = V - \dots ; n - n - \dots ; t - \dots$$

$$S^2 = \frac{(n-1)S^2 + (n-1)S^2}{n+n-2}, \quad (2)$$

$$S^2 = S^2 - \dots$$

$$V_p : \dots$$

$$\frac{\Delta V_p}{\Delta n_p} > 1. \quad (3)$$

$$\frac{\Delta V_p}{\Delta n_p} \leq 1, \quad (4)$$

$$\frac{\Delta V_p}{K_{Vp}} > 1, \quad (5)$$

$K_{Vp} -$

$$\frac{\Delta V_p}{K_V} \leq 1, \quad (6)$$

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2. / : , 1972. - 312 .
3. / , , - . : , 1979. - 269 .
4. - / - . : , 1972. - 120 .

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