



ƎƎƎ, Ǝ¼Ǝ, Ń†ƎμŃ•Ǝ°Ǝ, Ǝμ ƎƆƎμŃ...Ǝ½Ǝ¾Ǝ»Ǝ¾Ǝ³Ǝ, Ǝ,

ƎƎƎ, Ǝ¼Ǝ, Ń†ƎμŃ•Ǝ°Ǝ, Ǝμ ƎƆƎμŃ...Ǝ½Ǝ¾Ǝ»Ǝ¾Ǝ³Ǝ, Ǝ,

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Ǝ—Ǝ°Ǝ´Ǝ°Ń†Ǝ° 6-12

(ƎžƎ±Ǝ¾Ń€ŃƒƎ´Ǝ¾Ǝ²Ǝ°Ǝ½Ǝ, Ǝμ Ǝ´Ǝ»Ń•
Ǝ½ƎμŃ,,Ń,)

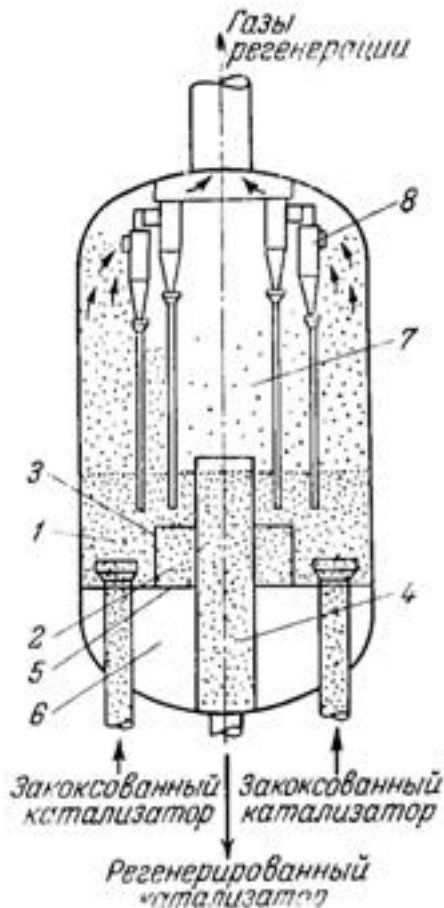


ρŃƒƎ± 80

Ǝ—Ǝ°Ǝ´Ǝ°Ń†Ǝ° 6.12 Ǝ Ǝ°Ń•Ń•Ń†Ǝ, Ń, Ǝ°Ń, ŃƆ ƃ€ƎμƎ³ƎμƎ½ƎμŃ€Ǝ°Ń, Ǝ¾Ń€ Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ°
ŃƒŃ•Ń, Ǝ°Ǝ½Ǝ¾Ǝ²Ǝ°Ǝ, Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ń, Ǝ, Ń†ƎμŃ•Ǝ°Ǝ¾Ǝ³ƎƎ¾ Ǝ°Ń€ƎμƎ°Ǝ, Ǝ½Ǝ³Ǝ° Ǝ²
Ǝ¿Ń•ƎμƎ²Ǝ´Ǝ¾Ǝ¾ƎƒƎ, ƎƒƎμƎ¿Ǝ½Ǝ¾Ǝ¼ Ń•Ǝ»Ǝ¾Ǝμ - Ń, ƎμŃ...Ǝ½Ǝ¾Ǝ»Ǝ¾Ǝ³Ǝ, Ń†ƎμŃ•Ǝ°ŃƒŃ Ń•Ń...ƎμƎ¼Ńƒ
Ń•Ǝ¼. [54, Ń•. 263] - Ǝ¿Ń€Ǝ, Ń•Ǝ»ƎμƎ´ŃƒŃŃŃ%ƎμƎ³Ǝ¾ Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ° Ǝ°Ǝ°Ǝ½Ǝ½ŃŃ...
Ǝ°Ǝ¾Ǝ»Ǝ, Ń†ƎμŃ•Ń, Ǝ²Ǝ¾ Ń†Ǝ, Ń€Ǝ°ŃƒƎ»Ǝ, Ń€ŃŃŃŃŃ%ƎμƎ³Ǝ¾ Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ° GƎ, = 2578 Ń, Ń†;
Ǝ¼Ǝ°Ǝ°Ń•Ǝ, Ǝ¼Ǝ°Ǝ»ŃƆƎ½ŃŃƎ¹ Ń€Ǝ°Ǝ•Ǝ¼ƎμŃ€ Ń†Ǝ°Ń•Ń, Ǝ, Ń† Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ° 150 Ǝ¼Ǝ°Ǝ¼,
Ǝ¿Ǝ»Ǝ¾Ń, Ǝ½Ǝ¾Ń•Ń, ŃƆ Ǝ¿Ń•ƎμƎ²Ǝ´Ǝ¾Ǝ¾ƎƒƎ, ƎƒƎμƎ, Ǝ½Ǝ¾Ǝ³Ǝ¾ Ń•Ǝ»Ǝ¾Ń• Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ°
Ń€Ǝ½Ǝ³ = 500 Ǝ°Ǝ³Ǝ¼³; Ń, ƎμƎ¼Ǝ¿Ǝ¿ƎμŃ€Ǝ°Ń, ŃƒŃ€Ǝ° Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ° Ǝ½Ǝ° Ǝ²ŃŃŃ...Ǝ¾Ǝ´Ǝμ Ǝ, Ǝ•
Ń€ƎμƎ°Ǝ°Ń, Ǝ¾Ń€Ǝ° 755 Ǝš; Ǝ°Ǝ¾Ǝ»Ǝ, Ń†ƎμŃ•Ń, Ǝ²Ǝ¾ Ǝ°Ǝ¾Ǝ°Ń•Ǝ°, Ǝ¿Ǝ¾Ń•Ń, ŃƒƎ¿Ǝ°ŃŃŃ%ƎμƎ³Ǝ¾ Ǝ²
Ń€ƎμƎ³ƎμƎ½ƎμŃ€Ǝ°Ń, Ǝ¾Ń€Ǝ° Ń• Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ°Ǝ¼, g = 20 Ń, Ń†; Ǝ°Ǝ¾Ǝ»Ǝ, Ń†ƎμŃ•Ń, Ǝ²Ǝ¾
Ǝ°Ǝ¾Ǝ°Ń•Ǝ° Ǝ½Ǝ° Ń€ƎμƎ³ƎμƎ½ƎμŃ€Ǝ, Ń€Ǝ¾Ǝ²Ǝ°Ǝ½Ǝ²Ǝ¾Ǝ¼ Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ°μ, 0,2 Ǝ¼Ǝ°Ń•Ń•%;
Ǝ°Ǝ¾Ǝ»Ǝ, Ń†ƎμŃ•Ń, Ǝ²Ǝ¾ Ǝ²Ǝ¾Ǝ´Ń•Ǝ½Ǝ¾Ǝ³Ǝ¾ Ǝ¿Ǝ°Ń€Ǝ°, Ǝ°Ǝ´Ń•Ǝ¾Ń€Ǝ±Ǝ, Ń€Ǝ¾Ǝ²Ǝ°Ǝ½Ǝ½Ǝ¾Ǝ³Ǝ¾
Ǝ°Ǝ°Ń, Ǝ°Ǝ»Ǝ, Ǝ•Ǝ°Ń, Ǝ¾Ń€Ǝ°Ǝ¼, Gn = 4130 Ǝ°Ǝ³/Ń†; Ń, ƎμƎ¼Ǝ¿Ǝ¿ƎμŃ€Ǝ°Ń, ŃƒŃ€Ǝ° Ǝ²
Ń€ƎμƎ³ƎμƎ½ƎμŃ€Ǝ°Ń, Ǝ¾Ń€Ǝ°μ Tp = 873 Ǝš; Ǝ´Ǝ°Ǝ²Ǝ»ƎμƎ½Ǝ, Ǝμ Ǝ½Ǝ°Ǝ´
Ǝ¿Ń•ƎμƎ²Ǝ´Ǝ¾Ǝ¾ƎƒƎ, ƎƒƎμƎ½Ǝ½ŃŃŃŃ%Ń•Ǝ»Ǝ¾Ǝμ¼ P = 0,23Å ƎœƎŸƎ°; Ń, ƎμƎ¼Ǝ¿Ǝ¿ƎμŃ€Ǝ°Ń, ŃƒŃ€Ǝ°
Ǝ²Ǝ¾Ǝ•Ǝ´ŃƒŃŃ...Ǝ° ƎƆƎ• = 353 Ǝš.

Ǝ—Ǝ°Ǝ´Ǝ°Ń†ƎμƎ¹ Ń€Ǝ°Ń•Ń†ƎμŃ, Ǝ° Ń€ƎμƎ³ƎμƎ½ƎμŃ€Ǝ°Ń, Ǝ¾Ń€Ǝ° Ń•Ǝ²Ǝ»Ń•ƎμŃ, Ń•Ń•

8. $\text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D} \mu \text{N} \in \text{D}^{\circ} \text{D} \cdot \text{D}^{1/4} \text{D} \mu \text{N} \% \text{D}^{\circ} \text{N} \checkmark \text{N}, \text{N} \cdot \text{N} \cdot \text{N} \dagger \text{D}, \text{D}^{\circ} \text{D} \gg \text{D}^{3/4} \text{D}^{1/2} \text{N} \langle 8.$



3.10. $\text{D} \text{D} \mu \text{D}^3 \text{D} \mu \text{D}^{1/2} \text{D} \mu \text{N} \in \text{D}^{\circ} \text{N}, \text{D}^{3/4} \text{N} \in \text{A} \text{A} \text{A} \text{N} \checkmark \text{N} \cdot \text{N}, \text{D}^{\circ} \text{D}^{1/2} \text{D}^{3/4} \text{D}^{\circ} \text{D}, \text{A} \text{A} \text{A} \text{D}^{\circ} \text{D}^{\circ} \text{N}, \text{D}^{\circ} \text{D} \gg \text{D}, \text{N}, \text{D}, \text{N} \dagger \text{D} \mu \text{N} \cdot \text{D}^{\circ} \text{D}^{3/4} \text{D}^{3/4} \text{A} \text{A} \text{A} \text{D}^{\circ} \text{N} \in \text{D} \mu \text{D}^{\circ} \text{D}, \text{D}^{1/2} \text{D}^{\circ} \text{D} \text{A} \text{A} \text{A} \text{A} \text{A} \text{D}^2 \text{A} \text{A} \text{A} \text{A} \text{A} \text{D} \checkmark \text{N} \cdot \text{D} \mu \text{D}^2 \text{D}^{3/4} \text{D}^{3/4} \text{D} \dagger \text{D}^{1/2} \text{D} \dagger \text{D} \mu \text{N} \checkmark \text{N} \checkmark \text{D}^{1/4} \text{N} \cdot \text{D} \gg \text{D}^{3/4} \text{D} \mu:$

1 - $\text{D} \checkmark \text{D} \mu \text{N} \in \text{D}^{\circ} \text{D}^{\circ} \text{N} \cdot \text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ}$; 2 - $\text{D}^2 \text{N}, \text{D}^{3/4} \text{N} \in \text{D}^{\circ} \text{N} \cdot \text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ}$; 3 - $\text{N} \dagger \text{D}, \text{D} \gg \text{D}, \text{D}^{1/2} \text{D} \text{N} \in \text{D}, \text{N} \dagger \text{D} \mu \text{N} \cdot \text{D}^{\circ} \text{D}^{\circ} \text{N} \cdot \text{D} \checkmark \text{D} \mu \text{N} \in \text{D} \mu \text{D}^3 \text{D}^{3/4} \text{N} \in \text{D}^{3/4} \text{D}^{\circ} \text{D}^{\circ}$; 4 - $\text{N}, \text{N} \in \text{D} \mu \text{N}, \text{N} \text{CEN} \cdot \text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ}$; 5 - $\text{N} \in \text{D}^{\circ} \text{N} \cdot \text{D} \checkmark \text{N} \in \text{D} \mu \text{D} \text{D} \mu \text{D} \gg \text{D}, \text{N}, \text{D} \mu \text{D} \gg \text{N} \text{CEN}^{1/2} \text{D}^{\circ} \text{N} \cdot \text{N} \in \text{D} \mu \text{N} \cdot \text{D} \mu \text{N}, \text{D}^{\circ} \text{D}^{\circ}$; 6 - $\text{N} \dagger \text{D} \mu \text{N}, \text{D}^2 \text{D} \mu \text{N} \in \text{N}, \text{D}^{\circ} \text{N} \cdot \text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ}$; 7 - $\text{D} \checkmark \text{N} \cdot \text{N}, \text{D}^{\circ} \text{N} \cdot \text{D} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ}$; 8 - $\text{N} \dagger \text{D}, \text{D}^{\circ} \text{D} \gg \text{D}^{3/4} \text{D} \checkmark \text{N} \langle$

$\text{A} \text{D} \checkmark \text{D}^{3/4} \text{D} \gg \text{N} \checkmark \text{N} \dagger \text{D}, \text{N}, \text{N} \text{CEN} \text{D}^{\circ} \text{D}^{1/2} \text{D}^{1/2} \text{N} \checkmark \text{N} \checkmark \text{D} \cdot \text{D}^{\circ} \text{D}^{\circ} \text{D}^{\circ} \text{N} \dagger \text{N} \checkmark \text{D}^2 \text{D}^{3/4} \text{D} \cdot \text{D}^{1/4} \text{D}^{3/4} \text{D} \dagger \text{D}^{1/2} \text{D}^{3/4} \text{D}^{1/2} \text{D}^{\circ} \text{D} \dagger \text{D}^{\circ} \text{D}^2 \text{D}^{\circ} \text{D}^{1/2} \text{D}^{3/4} \text{D} \checkmark \text{D}^{\circ} \text{N} \checkmark \text{D}^{\circ} \text{N} \checkmark \text{D} \checkmark \text{D}, \text{N}, \text{N} \text{CEN}$ " $\text{D}, \text{D} \checkmark \text{N} \in \text{D}^{3/4} \text{D}^1 \text{N}, \text{D}, \text{D} \checkmark \text{N} \in \text{D}^{3/4} \text{N} \cdot \text{N}, \text{N} \checkmark \text{N} \checkmark \text{N} \checkmark \text{N} \in \text{D} \mu \text{D}^3 \text{D}, \text{N} \cdot \text{N}, \text{N} \in \text{D}^{\circ} \text{N} \dagger \text{D}, \text{N} \checkmark \text{N} \checkmark \text{D}^{\circ} \text{D} \gg \text{D} \mu \text{D} \mu \text{D}^2 \text{N} \langle \text{D} \checkmark \text{D}^{3/4} \text{D} \checkmark \text{D}^{\circ} \text{D}^{\circ} \text{D} \mu \text{N}, \text{D} \mu \text{D}^2 \text{N} \cdot \text{D} \mu \text{N} \in \text{D}^2 \text{D}, \text{N} \cdot \text{D}^{3/4} \text{D}^{1/2} \text{D} \gg \text{D}^{\circ} \text{D}^1 \text{D}^{1/2}, \text{D}^{\circ} \text{D}^{\circ} \text{D} \mu \text{D}^2 \text{D}^{\circ} \text{D}^{1/4} \text{D} \pm \text{N} \checkmark \text{D}^{\circ} \text{D} \mu \text{N}, \text{D} \checkmark \text{N} \in \text{D} \mu \text{D} \text{D} \gg \text{D}^{3/4} \text{D} \dagger \text{D} \mu \text{D}^{1/2} \text{D}^{3/4} \text{D}^2 \text{N} \langle \text{D} \pm \text{N} \in \text{D}^{\circ} \text{N}, \text{N} \text{CEN} \text{N} \cdot \text{D} \checkmark \text{D}^{3/4} \text{N} \cdot \text{D}^{3/4} \text{D} \pm \text{D}^{3/4} \text{D} \checkmark \text{D} \gg \text{D}^{\circ} \text{N}, \text{N} \langle \text{D}, \text{D}^{3/4} \text{D} \checkmark \text{D} \gg \text{D}^{\circ} \text{N}, \text{D}, \text{N}, \text{N} \text{CEN} \text{D} \cdot \text{D}^{\circ} \text{D}^{\circ} \text{D}^{\circ} \text{D} \cdot \text{D} \checkmark \text{D}^{3/4} \text{N} \cdot \text{D} \gg \text{D} \mu \text{D} \checkmark \text{D} \checkmark \text{D}^{3/4} \text{D}^1 \text{N}, \text{D}^2 \text{D} \mu \text{N} \in \text{D} \dagger \text{D}^{\circ} \text{D} \mu \text{D}^{1/2} \text{D}, \text{N} \cdot \text{D}^{3/4} \text{D} \checkmark \text{D} \gg \text{D}^{\circ} \text{N}, \text{N} \langle \text{D}^2 \text{N} \langle \text{D} \checkmark \text{D}^{3/4} \text{D} \gg \text{N} \checkmark \text{N} \dagger \text{D}, \text{N}, \text{D} \mu \text{D} \cdot \text{D}^{\circ} \text{D}^{\circ} \text{D}^{\circ} \text{D} \cdot \text{D}^{\circ} \text{D}^{1/2} \text{D}^{1/2} \text{N} \checkmark \text{N} \checkmark \text{D} \cdot \text{D}^{\circ} \text{D}^{\circ} \text{D}^{\circ} \text{N} \dagger \text{N} \checkmark \text{D} \text{—} \text{D}^{\circ} \text{D}^{\circ} \text{D}^{\circ} \text{N} \dagger \text{D}^{\circ} \text{D} \checkmark \text{N} \in \text{D} \mu \text{D} \text{N} \cdot \text{N}, \text{D}^{\circ} \text{D}^2 \text{D} \gg \text{D} \mu \text{D}^{1/2} \text{D}^{\circ} \text{D}^2 \text{D}^2 \text{D}, \text{D} \text{D} \mu \text{N} \cdot \text{D} \gg \text{D}, \text{N}, \text{D} \mu \text{N} \in \text{D}^{\circ} \text{N}, \text{N} \checkmark \text{N} \checkmark \text{N} \checkmark \text{N} \langle \text{D} \text{N} \cdot \text{D} \gg \text{N} \checkmark \text{N} \checkmark \text{N} \dagger \text{D}^{\circ} \text{D} \mu \text{D}^2 \text{D}^{3/4} \text{D} \cdot \text{D}^{1/2} \text{D}, \text{D}^{\circ} \text{D}^{1/2} \text{D}^{3/4} \text{D}^2 \text{D} \mu \text{D}^{1/2} \text{D}, \text{N} \cdot \text{D} \cdot \text{D}^{\circ} \text{N}, \text{N} \in \text{N} \checkmark \text{D} \text{D}^{\circ} \text{D}^{1/2} \text{D}, \text{D}^1 \text{N} \cdot \text{D}^{1/4} \text{D}^{3/4} \text{N}, \text{N} \in \text{D}, \text{N} \checkmark \text{N} \cdot \text{D} \gg \text{D}^{3/4} \text{D}^2 \text{D}, \text{N} \cdot \text{D}^{3/4} \text{D} \pm \text{N} \cdot \text{D} \gg \text{N} \checkmark \text{D} \dagger \text{D}, \text{D}^2 \text{D}^{\circ} \text{D}^{1/2} \text{D}, \text{N} \cdot \text{D}, \text{D}, \text{D}^{1/2} \text{N}, \text{D}^{3/4} \text{N} \in \text{D}^{1/4} \text{D}^{\circ} \text{N} \dagger \text{D}, \text{N} \checkmark \text{N} \checkmark \text{D}^{3/4} \text{D} \checkmark \text{D}^{\circ} \text{D}^2 \text{N} \dagger \text{D} \mu.$

[D^{1/2} N, D^{3/4} N \in D^{1/4} D^{\circ} N \dagger D, N \cdot D^{3/4} D \checkmark N \in D^{3/4} D^{\circ} D^2 N \dagger D \mu](#)