5.4 Lösungen

1. $r = \underline{\underline{\frac{P \cdot 75 \cdot 30}{F \cdot \tau \cdot n}}}$

2. $t = \underline{\underline{\frac{s}{v}}}$

3. $m = \underline{\underline{\rho \cdot V}}$

4. $z_1 = \underline{\underline{\frac{z_2 \cdot n_2}{n_1}}}$

5. $r = \underline{\underline{\sqrt{R^2 - \frac{A}{\pi}}}}$

6. $v = \underline{\underline{\sqrt{\frac{2W}{m}}}}$

7. $D = \underline{\underline{\sqrt{\frac{4 \cdot V}{\pi \cdot h} + d^2}}}$

8. $m_2 = \underline{\underline{\frac{F \cdot r^2}{f \cdot m_1}}}$

9. $r = \underline{\underline{\sqrt[3]{\frac{3 \cdot V}{4 \cdot \pi}}}}$

10. $R_4 = \underline{\underline{\frac{R_2 \cdot R_3}{R_1}}}$

11. $c = \underline{\underline{2 \cdot s - a - b}}$

12. $h = \underline{\underline{\frac{2 \cdot A}{c}}}$

13. $R_2 = \underline{\underline{\frac{R_1}{V - 1}}}$

14. $a = \underline{\underline{2 \cdot \sqrt{k^2 - h^2}}}$

15. $F_w = \underline{\underline{\frac{F_L \cdot (\rho - \rho_w)}{\rho}}}$

16. $\rho = \underline{\underline{\frac{2 \cdot \Delta p}{v^2}}}$

17. $\Delta\vartheta = \underline{\underline{\frac{R_W - R_K}{R_K \cdot \alpha}}}$

18. $h = \underline{\underline{\frac{2 \cdot A}{a + b}}}$

19. $R_2 = \underline{\underline{\frac{R_{ges} \cdot R_1}{R_1 - R_{ges}}}}$

20. $u = \underline{\underline{(r - s)^2}}$

21. $R = \underline{\underline{\frac{\eta R_i}{1 - \eta}}}$

22. $r_1 = \underline{\underline{\frac{C \cdot r_2}{4 \cdot \pi \cdot k \cdot r_2 + C}}}$

23. $\alpha = \underline{\underline{\frac{(U - 2r) \cdot 180}{r \cdot \pi}}}$

24. $C = \underline{\underline{\frac{1}{(2 \cdot \pi \cdot f)^2 \cdot L}}}$

25. $v_0 = \underline{\underline{\frac{(s - s_0) \cdot 2}{t}}} - v = \underline{\underline{\frac{(s - s_0) \cdot 2 - vt}{t}}}$

26. $C_2 = \underline{\underline{\frac{C_{ges} \cdot C_1}{C_1 - C_{ges}}}}$

27. $g = \underline{\underline{\frac{V}{R \cdot (1 - V)}}}$

28. $d = \underline{\underline{D - \frac{2 \cdot A}{l}}} = \underline{\underline{\frac{D \cdot l - 2 \cdot A}{l}}}$