

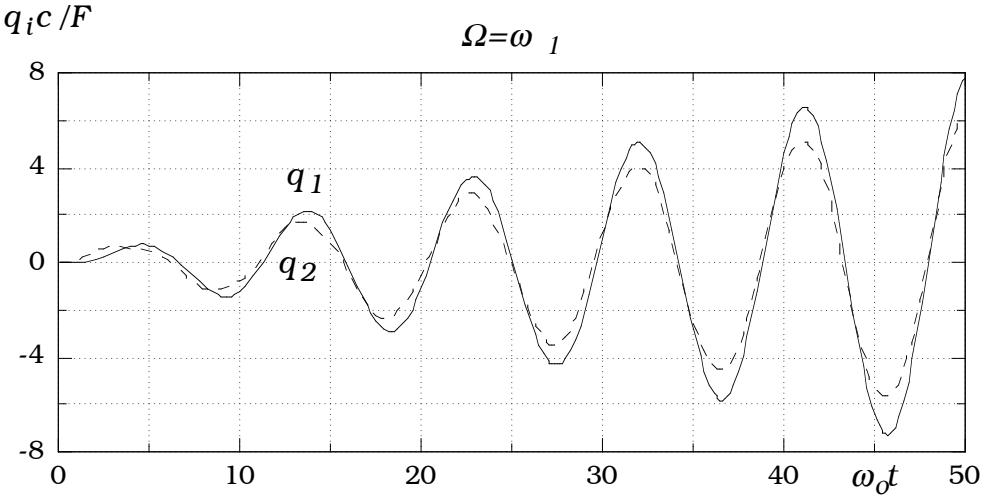
Errata zu Technische Mechanik / Technical Mechanics

v1.1

S. Kessel, D. Fröhling
1. Auflage, Teubner Verlag

Kap.	Seite	Beschreibung
2	6	$F = \vec{F} = \sqrt{F_x^2 + F_y^2 + F_z^2}.$
2	6	3. Absatz links Zeilenabstand
2	11	$\sum_{i=1}^n \vec{F}_i^{(1)} = \sum_{j=1}^m \vec{F}_j^{(2)}$
3	21	Bsp. Einzug
3	21	$\begin{aligned} 2F_o + B_x &= 0, & B_x &= -2F_o, \\ -3F_o + B_y + C_y &= 0, & \Rightarrow B_y &= \frac{8}{3}F_o + \frac{M_o}{3l}, \\ M_o - 2F_o 2l + 3F_o l + C_y 3l &= 0; & C_y &= \frac{F_o}{3} - \frac{M_o}{3l}. \end{aligned}$
4	33	$\overline{PQ}_a = \bar{a} ds_a \rightarrow \overline{P^*Q^*}_a = \bar{a}^* ds_a^*$
7	56	$\boldsymbol{\varepsilon} = \underbrace{\left(\boldsymbol{\varepsilon} - \frac{1}{3}\boldsymbol{e}1\right)}_{\boldsymbol{\varepsilon}^{(D)}} + \underbrace{\left(\frac{1}{3}\boldsymbol{e}1\right)}_{\boldsymbol{\varepsilon}^{(K)}}, \quad \boldsymbol{\sigma} = \underbrace{\left(\boldsymbol{\sigma} - \frac{1}{3}\boldsymbol{s}1\right)}_{\boldsymbol{\sigma}^{(D)}} + \underbrace{\left(\frac{1}{3}\boldsymbol{s}1\right)}_{\boldsymbol{\sigma}^{(K)}}$
9	77	rechts unten Doppelpunkt
10	82	$dA = \vec{e}_x \cdot (d\vec{r}_\eta \times d\vec{r}_\zeta) = (\hat{y}_1 \hat{z}_2 - \hat{y}_2 \hat{z}_1) d\eta d\zeta := Dd\eta d\zeta.$
11	85	1. Zeile rechts: system of forces
11	92	$f_k = \frac{\partial U}{\partial F_k} = \frac{1}{2} \sum_{i=1}^3 \sum_{j=1}^3 (A_{ij} \delta_{ik} F_j + A_{ij} F_i \delta_{jk}) = \sum_{i=1}^3 A_{ki} F_i,$
17	120	camera tripod
17	128	Bild: $ \vec{v}_A = \vec{v}_D = \vec{v}_B $
18	137	$\Theta_{S11} = \int_m (s_2^2 + s_3^2) dm = \frac{m}{V} \int_{-l_3/2}^{l_3/2} \int_{-l_2/2}^{l_2/2} \int_{-l_1/2}^{l_1/2} (s_2^2 + s_3^2) ds_1 ds_2 ds_3,$
18	138	dreimal $\Theta_{Sii} = \dots = \rho \iiint \dots$, nicht $= \frac{\rho}{m} \iiint \dots$
19	151	$\begin{aligned} m\ddot{x}_S &= F_x, \\ m\ddot{y}_S &= F_y, \\ m\ddot{z}_S &= F_z. \end{aligned}$
20	160	$A_y = \frac{1}{4} mg \tan \varphi, \quad K = \frac{mg}{4} \left(\frac{1}{\cos \varphi} + 9 \cos \varphi - 6 \cos \varphi_o \right) + ml \psi_o^2.$
24	206	Aus der kinematischen Zwangsbedingung
26	217	im Bild: $t > \tau$
26	231	<p>1. Formelzeile $-\frac{\tau}{2\eta_1} \sin(\omega_1 t) \rightarrow -\frac{\omega_o t}{2\eta_1} \cos(\omega_1 t)$</p> <p>4. Formelzeile $-\frac{\tau}{2\eta_2} \sin(\omega_2 t) \rightarrow -\frac{\omega_o t}{2\eta_2} \cos(\omega_2 t)$</p>

Kap. 26, S. 231: Erster Resonanzfall / First Case of Resonance



Kap. 26, S. 232: Zweiter Resonanzfall / Second Case of Resonance

