Zeitschrift: IABSE congress report = Rapport du congrès AIPC = IVBH Kongressbericht

Band: 2 (1936)

Rubrik: G. Miscellaneous

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MISCELLANEOUS

VERSCHIEDENES

DIVERS

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I. Conversion Table from British to Metric Units.

Length:	1 inch.	= 2.5399978 cm
	1 foot	= 0.3047997 m
	1 yard	= 0.9143992 m
Area:	1 sq. in	= 6.451589 cm^2
	1 sq. ft.	= 0.092903 m^2
	1 sq. yd.	= 0.836126 m^2
Volume:	1 cu. in.	= 16.387021 cm^3
	1 cu. ft.	= 0.028317 m^3
	1 cu. yd.	= 0.764553 m^3
Force:	1 lb.	= 0.453592 kg
	1 kip (1000 lb.)	= 0.453592 t
	1 (long) ton	= 1.016047 t
Stress:	1 lb/sq. in.	= 0.070307 kg/cm^2
	1 lb/sq. ft.	= 4.882437 kg/m^2
	1 ton/sq. in.	= 157.4879 kg/cm^2

Temperature: $t^0_C = \dfrac{t^0_F - 32}{1.8}$.

II. Conversion Table from Metric to British Units.

Length:	1 cm	= 0.3937011 in.
	1 m	= 3.2808430 ft.
		= 1.0936143 yd.
Area:	1 cm^2	= 0.155001 sq. in.
	1 m^2	= 10.763931 sq. ft.
		= 1.195992 sq. yd.
Volume:	1 cm^3	= 0.061024 cu. in.
	1 m^3	= 35.314767 cu. ft.
		= 1.307954 cu. yd.
Force:	1 kg	= 2.204622 lb.
	1 t	= 2.204622 kips
		= 0.984206 longton
Stress:	1 kg/cm^2	= 14.223315 lb/sq. in.
	1 t/cm^2	= 6.349693 ton/sq. in.

Temperature: $t^0_F = 1.8\, t^0_C + 32$.

III. Errata of the "Preliminary Publication".

The "Preliminary Publication" is to be corrected as follows:

I 1 A. Freudenthal.

p. 7: $\sqrt{\left(\frac{\sigma_x + \sigma_y}{2}\right)^2 + \tau^2} + \sin\rho\,\frac{\sigma_x + \sigma_y}{2} = C$

I 2 J. Fritsche.

p. 23, eq. (2): $\sigma'_F = \sqrt{\frac{2}{1 + \alpha(1 - \beta)}} \cdot \sigma_F$

p. 33, eq. (13): $\ldots\ldots = \bar{\sigma}_{o\,crit}\,[1 + \bar{\sigma}_{o\,crit} \cdot \ldots]$

I 4 E. Melan.

p. 60, 9th l. from the bottom: $\vartheta_{11} + c_1 \ldots\ldots \vartheta_{1\lambda}$

p. 62, 9th l.: $\bar{\sigma}_i + c_i \bar{v}_i = \ldots.$

p. 63, 10th l. from the bottom:

$\ldots. + c_i\,(2\,w_i^{(\varphi)} + \Delta w_i^{(\varphi+1)})\,\Delta w_i^{(\varphi+1)}$

p. 63, 6th l. from the bottom: $z_i^{(\varphi+1)} = e_i^{(\varphi+1)} - \ldots.$

I 5 E. Kohl.

p. 67: $\ldots. = \frac{34{,}5\,P'_{Gr}}{50{,}64 + l_z \frac{F_c}{F_z}}$ for case a

$\ldots. = \frac{34{,}5\,P_{Gr}}{60{,}54 + l_z \frac{F_c}{F_z}}$ for case b

I 6 R. Lévi.

p. 81, 11th l. from the bottom: $n = \frac{PC}{OP} = \ldots.$

IIb 1 E. Bornemann.

p. 183, at the bottom: $\sigma_b = \frac{(\delta - x)}{\left(\frac{E_e}{E_b} + \frac{1}{\mu}\right)} \cdot E_e$

IId 1 F. Baravalle.

p. 322, Fig. 4: Space between the columns 3.90 instead of 5.30

IIIa 1 O. Kommerell.

p. 366, eq. (5): $= \frac{a \cdot \max M + b \cdot \min M}{W} = \ldots.$

p. 366, eq. (8): $M = \max M + \frac{1}{2}\,(\ldots.)$

IIIa 2 M. Roš.

p. 411, eq. (7): $\sigma_g = \sqrt{\ldots\ldots + \gamma\tau^2} \leqq \sigma_{o\,zul}$

p. 412/13: In the article *"Obliquely placed fillet-weld"*

Accordingly we receive

$$\sigma_h = \frac{P}{h}; \quad \sigma_1 = 0.25\,\sigma_h; \quad \sigma_2 = 0.75\,\sigma_h; \quad \tau = 0.433\,\sigma_h$$

$$\alpha_1 = 0.35; \qquad \alpha_2 = 0.85$$

h = depth of weld

From the equation (6) — Fig. 20 — follows that

$$\sigma_h \cdot \sqrt{\left(\frac{0.75}{0.85}\right)^2 + 6 \cdot 0.433^2} = 1.38\,\sigma_h \leqq \sigma_{o\,zul}$$

$$\sigma_h \leqq 0.72\,\sigma_{o\,zul}$$

IIIc 1 N. C. Kist.

p. 518, 3[rd] li from the bottom:

$$\frac{1}{2} F \sigma_{B\alpha} = \frac{\sigma_{B\,zug}}{\sqrt{\sin^2\alpha + 3\cos^2\alpha}}$$

IVa 3 H. Granholm.

p. 710, eq. (4a): $(\ldots.) + e^{kx}\,(C \cos kx + D \sin kx)$

IVb 1 S. Boussiron.

p. 740: $J' = \dfrac{J_{crown}}{1 - \dfrac{K-1}{K}\, m^{\gamma}}$

IVb 2 Fr. Dischinger.

p. 761, 11[th] and 16[th] l.: lowering of the crown of $\dfrac{1}{3500}\ \dfrac{1}{2f}$

p. 769, 18[th] l. from the bottom: .... 45,200 tm ....

IVb 3 A. Hawranek.

p. 791, eq. (3): $\ldots\ldots + \dfrac{1}{EF_m}\displaystyle\int \dfrac{N_x^2\,ds}{A' + B'x + Dx^2}$

p. 792, 3[rd] l.: $\dfrac{H\Phi}{EF_m} \cdot \dfrac{2\,l\nu}{\varepsilon^2}\left[\left(a + \dfrac{1}{2}\right) \ln \dfrac{\nu}{\nu_1} + \ldots\right.$

V 3 F. and H. Bleich.

p. 878, last equation: $\ldots\ldots + \dfrac{1}{G} \sum_i{}' \dfrac{T'_i h_i}{\delta_i} = 0$

p. 889, eq. (42), 3[rd] eq.: $\ldots. + EB_\varphi \dfrac{d^4\varphi}{dz^4} - GJ_d \dfrac{d^2\varphi}{dz^2} = 0$

62

V 10 Fr. Krabbe.

p. 1032, 8th l. from the bottom:

$$\ldots\ldots - \frac{4E(J_{dm} + J_{d(m+1)})}{a} - \frac{6EJ_v}{h}$$

p. 1032, 4th l. from the bottom:

$$\ldots\ldots + J_{o(m+1)}\,\vartheta_{(m+1)} - 4J_{dm}\cos\alpha\frac{\vartheta_m}{2}\ldots\ldots$$

p. 1033, 14th l.:

$$= \frac{E}{a}\left[- J_{o(m+1)}\,\vartheta_{m+1} + 4J_{d(m+1)}\cos\alpha\frac{\vartheta_{m+1}}{2}\ldots\ldots\right.$$

p. 1034, eq. (30): $M_m = -\frac{4EJ_o}{a}$

V 11 B. Laffaille.

p. 1061, 10th l.: $\frac{d}{dr}(r z' \sigma_r) = Z r$

p. 1062, 3rd l. from the bottom: $\tau_{r\vartheta} = \Sigma t_n \cos n\vartheta$

VI 1 Zd. Bazant.

p. 1098, eq. (15a): $\omega' = \frac{1 - \cos\alpha}{\vartheta'}\left[\ldots\right]$

p. 1101, eq. (25a): $y = \omega_o r_o \left[\varepsilon - \delta\varepsilon + \frac{(p + p') r_2}{Et}\right]$

VIII 1 A. E. Bretting.

p. 1491, last line: $G = K\left(\frac{y}{10}\right)^n$

p. 1495, 21st l.: $c = 0.5\,d$

p. 1497, 10st l. from the bottom: $G = K \cdot \left(\frac{y}{10}\right)^n$