

Errata Sheet

Rheol. Acta 10, 582–594 (1971)

A general method for the determination of approximations to the spectral distributions from the dynamic response functions

By *N. W. Tschoegl* (Pasadena/U.S.A)

This article was printed without the author's correction of the galley proofs. In consequence, it precedes the article [*N. W. Tschoegl*, Rheol. Acta 10, 595–600 (1971), in the same issue of the journal] which it should have followed, and contains numerous misprints which are set out below.

(1) Insert a comma between *two* and *we* use in the fourth line of the last full paragraph of page 583.

(2) The denominator of eq. [25] should be $(1 + \omega^2 \tau^2)^3$.

(3) The value of b in the third line after eq. [26] should be $\pm 1/2$.

(4) The left hand sides of eqs. [27] and [28] should be $I'_{2L}(\omega\tau)$ and $I'_{2R}(\omega\tau)$, respectively.

(5) The last line of the top paragraph in the left column of page 585 should read: order approximation centered on $\log \omega\tau = 0$.

(6) The left hand side of eq. [33] should be $I'_3(\omega\tau)$.

(7) The last line of the paragraph following eq. [34] should read: tensivity function.

(8) The numerator of eq. [37] should be: $6\omega^6\tau^6$.

(9) The second intensity function mentioned in the second line of the right hand column on page 585, and the second intensity function mentioned in the sixth line following eq. [33] should both properly be: $I'_{3B}(\omega\tau)$.

(10) The intensity function mentioned in the second line following Fig. 1 should be $I'_{3R}(\omega\tau)$.

(11) The third sentence of the first new paragraph of the right hand column of page 586 should read: Approximations of any higher order, based on the *Stieltjes* transform inversion, were given by *Okano* (8) and *Fujita* (9) but without the appropriate shift in the time scale of the spectrum where applicable.

(12) The first equation reference in table 1 should be [30] instead of [29].

(13) The last word in the second line of Section 4 on page 586 should be *when* instead of *where*.

(14) The far right hand side of eq. [47] should be

$$\frac{1}{1 + (\omega_0/\omega)^\beta}$$

(15) The right hand side of eq. [52] should be G_n^0 .

(16) The two lines following eq. [54] should be deleted.

(17) The square root sign in the twelfth line from the bottom of the left hand column on page 589 should extend over the number 2 only.

(18) The two terms in the first line of eq. [72] should be connected by a plus sign instead of a minus sign.

(19) The first value of $\omega\tau$ in the third line of the second new paragraph in the left hand column of page 591 should be $1/\sqrt{5}$.

(20) The left hand side of eq. [80] should be $L_2''(\tau)$, and that of eq. [81] should be $L_2''(\sqrt{5}\tau)$.

(21) The paragraph following eq. [87] should read: The maxima occur at $\omega\tau = 1/\sqrt{7}$, $1/\sqrt{5/3}$, and $\sqrt{7}$. There is thus no third order intensity function which is symmetric with respect to $\log \omega\tau$ and whose maximum occurs at $\omega\tau = 1$.

(22) The second value of r_0 in table 2 should be $\sqrt{5/3}$.

(23) The last line of the first paragraph of Section 6 on page 592 should read: be reexamined.

(24) The heading of Table 1 of the Appendix should contain the word *four* instead of *five*.

(25) The left hand side of the fourth equation of table 2 of Appendix I should be

$$\omega^4 \frac{d^4}{d\omega^4}$$

(26) The limits of the second integral of Appendix II should be moved to the right.

(27) Reference 1 should be: *Tschöegl, N. W.*, *Rheol. Acta* **10**, 595 (1971).

(28) Reference 8 should be *Okano, M.*, *Busseiron Kenkyu* **3**, 493 (1958).

(29) Reference 12 is incomplete. It should be: *Ferry, J. D.* and *M. L. Williams, J.* *Colloid Sci.* **7**, 347 (1952).

(30) The second and third sentences of the second new paragraph in the left hand column of page 592 should read: Approximations of any order higher than the first, based on the *Stieltjes* transform inversion,

were given by *Okano* (8) and those of even order by *Fujita* (9) but without the appropriate shift in the time scale of the spectrum where applicable. In addition, *Fujita's* approximations were not normalized.

(31) Fig. 2 and Fig. 3 should be interchanged.

(32) In the caption to Fig. 7 $\log H'(\sqrt{3}\tau)$ should read $\log H'_3(\sqrt{3}\tau)$.

(33) The 3rd line of the 3rd paragraph in the left column of p. 588 should read $I'_{3RR}(\omega\tau)$ instead of $I'_{2RR}(\omega\tau)$.

(34) Line 2 in the right column on p. 588 should read $H'_3(\sqrt{3}\tau)$ instead of $H'_{3RR}(\sqrt{3}\tau)$.

Berichtigung zu Statik in rechtwinklig-krummlinigen Koordinaten nebst Anwendung auf Fragen der rheostatischen Schmierung

Von *M. Biermann* (Berlin)

in *Rheologica Acta* Band **11**, Seite 341–350 (1972)

Auf Seite 342 muß das erste Glied der zweiten Zeile von Gleichung [6] $\frac{\partial T \langle ij \rangle}{h_j \partial \xi^i}$ statt $\frac{\partial T \langle ij \rangle}{h_j \partial \xi^i}$ lauten.

Fußnote ¹¹ gehört nicht auf Seite 349, sondern ausschließlich auf Seite 350 zu Literaturhinweis (8). Am Schluß dieser Fußnote ist „fehlerhaft.“ zu ergänzen.

MITTEILUNGEN

The British Society of Rheology

The 1973 Autumn Conference of the Society will be held at the University of East Anglia, Norwich, from September 18–21. The theme of the conference will be “*Modern Developments in Rheology*”; the scope of the meeting will be quite general, but it is hoped that, within it, specific sessions on “*Elongational Flow*” and “*Multiphase Systems*” will be arranged.

Offers of papers for this Conference are invited. Prospective authors are asked to give notice of intent to submit a paper at the *earliest possible date*. More definite information, in the form of a title and an abstract, should be submitted no later than April 30th 1973. Prospective authors are asked to write to: Dr. *K. M. Beazley*, 44 Brockstone Road, Boscoppa, St. Austell, Cornwall, (U. K.)

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