Corrections to be noted in Volume 69 of the JOURNAL OF RESEARCH of the National Bureau of Standards—D. Radio Science

Page	Column	Line	Now reads in part	Should read
153	1	22 from bottom.	modecules	molecules
154	1	18 from bottom.	7–801–833	7–801–33
156	2	20	$\mathbf{A}(\mathbf{k})$	$\bar{\mathbf{A}}(\mathbf{k})$
		21	$\omega_0\equiv\omega(k)$,	$\omega_0\equiv\omega(k')$,
157	1	13 from bottom.	$n(\theta;\,\omega)$	$n(\bar{\theta};\,\omega)$
159	1	30	$y=z=0$,	$x=y=0$
161	1	5 from bottom.	$\mathbf{H}\sim\sqrt{\epsilon/\mu}\boldsymbol{\nu}x\mathbf{E}$,	$\mathbf{H}\sim\sqrt{\epsilon/\mu}\boldsymbol{\nu}\times\mathbf{E}$,
173	1	3 of eq (10)	$e^{-j\gamma k_0 z}d\gamma]$,	$]e^{-j\gamma k_0 z}d\gamma$,
182	2	Eq (22) and (23).	$\mathbf{E}_2' x\mathbf{H}_1\cdot d\mathbf{s}$	$\mathbf{E}_2'\times\mathbf{H}_1\cdot d\mathbf{s}$
213	Abstract	5	$xu(\sec^{-1})$,	$\times u(\sec^{-1})$,
216	2	Eq (6)	Add a parenthesis at the end of equation 6.	
		9	4.84×10^3,	4.84,
268	1	12 from bottom.	$F1$ layers	$F1$ and $F2$ layers
401	1	5	Sommerfield	Sommerfeld
403	1	5	ω_c' =collision frequency,	ω_c =collision frequency,
		Eq (35)	$(\mu_0\bar{E})]$	$(\epsilon_0\bar{E})]$
449		Eq (12)	$\underline{\cos^2\left(\frac{k_0 l}{2}\right)}$	$\underline{\cos^2\left(\frac{k_0 l}{2}y\right)}$
		Eq (16)	$\dfrac{\left[\sin^2\left(\frac{m\phi_0}{2}\right)\right]}{\left(\frac{m\phi_0}{2}\right)}$	$\left[\dfrac{\sin^2\left(\frac{m\phi_0}{2}\right)}{\left(\frac{m\phi_0}{2}\right)}\right]^2$
455	2	2 from bottom.	along r_∞	along r'_∞.
457	2	13	refer to (k);	refer to the previous section;
		14	(7) corre-	(10) corre-
521		9 from bottom.	$\epsilon^{j\omega t})$	$e^{j\omega t})$
525		Eq (20)	$[\psi(1B/4\sqrt{\alpha})$	$[\psi(1+B/4\sqrt{\alpha})$
530	1	Eq (1)	$\epsilon=\overleftrightarrow{\ulcorner}$	$\overleftrightarrow{\epsilon}=\ulcorner$
		Eq (2)	$\epsilon_2=\pm 1$	$\epsilon_2=\pm i$
538	1	4	$\dfrac{e^{i\nu}n^{\theta}}{\quad}\ \dfrac{H^{(l)}_{\nu\ n}\,(k_0\rho)}{\qquad}$	$\dfrac{e^{i\nu_n\theta}}{\quad}\ \dfrac{H^{(l)}_{\nu_n}\,(k_0\rho)}{\qquad}$
		11	$\cos h\ \nu''\theta+i\sin\nu'\theta-\sin h\ \nu''\theta\cdot$	$\cosh\nu''\theta+i\sin\nu'\theta\sinh\nu''\theta\cdot$
		14	$\cos h\ \nu''\theta=\sin h\ \nu''\theta$.	$\cosh\nu''\theta=\sinh\nu''\theta$
		16	$\sin h\ \nu''\theta=0$, $\cos h\ \nu''\theta=1$,	$\sinh\nu''\theta=0$, $\cosh\nu''\theta=1$,
541		12	$[1/r(u/\alpha$	$[(1/r)(u/\alpha$
542		8	$(u/\beta-1)$	$(u/\beta-1)=0$
545		11	(if $B>0$	(if $B<0$
744		Eq (2.6)	$\boldsymbol{D}=\epsilon\cdot\boldsymbol{E}$,	$\boldsymbol{D}=\underline{\underline{\epsilon}}\cdot\underline{\boldsymbol{E}}$,
		Eq (2.7)	$-\mathbf{A}/c$,	$-\dot{\mathbf{A}}/c$,
745		5 from bottom.	vanishes to that	vanishes so that
746		Eq (2.23)	$(\boldsymbol{E}^*_{em}\cdot\boldsymbol{D}_{em}$	$(\boldsymbol{E}^*_{em}\cdot\dot{\boldsymbol{D}}_{em}$
		Eq (2.25)	$(\dot{q}^*\ddot{q}+$	$(\dot{q}^*_\mu\ddot{q}_\mu+$
747		22	forced oxcillator	forced oscillator
748		6	$\mathbf{B}_0/\mathrm{Mc}$	$\mathbf{B}_0/\mathrm{mc}$,
749		Eq (3.9)	$\theta\quad\gamma r_1\sin\gamma^{-1}\omega_B t+ik\cos\theta\quad v_2 t)$	$\theta\cdot\gamma r_1\sin\gamma^{-1}\omega_B t+ik\cos\theta\cdot v_2 t)$.

Page	Column	Line	Now reads in part	Should read
778	1	Eq (45)	$\tan \alpha_n = -\frac{V_n}{c_0}\frac{d}{d\theta}\left(\frac{c_0}{V_n}\right)$	$\tan \alpha_{phn} = -\frac{V_n}{c_0}\frac{d}{d\theta}\left(\frac{c_0}{V_{phn}}\right)$
941	2	8	(7) has	(9) has
1037	1	4	Table 1 was inadvertantly omitted, for further information write direct to the author, Charles P. Sonett, Space Sciences Division, NASA, Ames Research Center, Moffet Field, California.	
1135	1	24	the distance	the cube of the distance
1140	2	17	$A=$	$\Delta A=$
1142	1	2	for ϕ	for $\dot{\phi}$
1169	1	4	field varaitions	field variations
1171	2	15	magnetic distrubance	magnetic disturbance
1177	1	8	Ibadab	Ibadan
1196	1	7 and 8	path varies from 90° to 94° during the measurement is from 94° to 96°.	path the variation in the same measurement period is from 94° to 96°.
1239	1	15 and 16	10 kc/s to Mc/s	10 kc/s to 30 Mc/s
1240	1	6	$p=E^2/120$	$p=E^2/120\pi$
1241	1	3 from bottom.	cycles per second	kilocycles per second
1285		12	R	$\mathscr{R}$
1289		3 from bottom.	$\theta,(\eta)$	$\theta_1(\eta),$
1292		4 and 5	γ	$r(r)$
1297		Eq (2)	$=0 \quad$ for $z^2>0$	$=l^2 \quad$ for $z^2>l^2$.
1301		Eq (15a)	$-f_q$	$=f_q$
1306		3	$+\frac{i\sigma}{q}$	$\pm\frac{i\sigma}{q}$
1321	Abstract	5 from bottom.	$0 \leq X \leq s, \ldots s \leq X \leq x_w$	$0 \leq x \leq s, \ldots s \leq x \leq x_w.$
1329	1	Fig. 2a	Q-RADIANS	Θ-RADIANS
1359	2	Eq (5)	$\Omega = \pm \omega_T/\nu$	$\Omega = \pm \omega_T/\nu_0,$
		7 from bottom.	add the following to the beginning of this line: where $\nu_0=\nu$ for $z=h$ and	
1411		4 from bottom.	$=\frac{1}{\sqrt{2\pi^1}}$	$=\frac{1}{\sqrt{2\pi}}$
1413		29	$=8.4(10^9)$	$=8.4(10^8)$
1419	2	2, 3, and 6	$=\int_0^{\prime}$	$=\int_0^1$
1421	2	6 from bottom.	$\leq 35.8(10^3);$	$\leq 19.2(10^3)$
1474		3 from bottom.	$5\ b_{j1}=$	$5;\ b_{j1}=$
1533	2	19	geographic north and south poles	magnetic poles in the northern and southern hemispheres.
1559	1	Tables 3 and 4, heading.	("Takeoff Region")[a]	("Tailoff Region")[a]
1562	1	Figure 1, legend.	200 Mc/s	195 Mc/s
1563	See page V of this Errata for corrections.			
1565	2	Eq (3)	$\int \Omega_s T A_e d\Omega,$	$\int_{\Omega_s} T A_e d\Omega,$
1573		2 from bottom.	518±40 °K. The	518±40 °K. No radio emission was detected for Mars at frequencies of 195 or 430 Mc/s. The
1575	2	4, 5, and 6 from bottom.	Unless you introduce inhomogeneities into the atmosphere, I do not see a way to explain these observations.	The decline in radar reflectivities towards longer wavelengths implies a decline in brightness temperatures towards longer wavelengths; but the effect does not seem to be large enough quantitatively to account for the passive microwave observations.

Corrections to be noted in Volume 69 of the JOURNAL OF RESEARCH of the National Bureau of Standards—D. Radio Science—Continued

Page	Column	Line	Now reads in part	Should read
1581	1	11	In Salomonovich	In Kuzmin
		25	Lyot [1927]	Drake [1964]
	2	33	Moroz [1963]	Kerr [1949]
		43	Moroz [1963]	Kerr [1949]
1582	1, Table 2, Col. 3	1	1.6/0.8	1.8/1.6
1634	1	2	June 2–30,	June 11–30,
		5	[Kotelnikov and Apraksin, 1962;	[Kotelnikov, Apraksin, et al., 1962
		6	Kotelnikov and Du Brovin, 1963]	Kotelnikov and Dubrovin, et al., 1962]
		15	[Kotelnikov and Du Brovin, 1963, 1964]	[Kotelnikov, Dubrovin, et al., 1962]
		20 and 21	equal to 4.0 and 0.95 sec respectively	equal to 4.096 sec.
		29	[Kotelnikov and Du Brovin, 1964]	[Kotelnikov, Dubrovin, et al., 1962]
1635	1	15 and 16	[Kotelnikov and Du Brovin, 1963]	[Kotelnikov, Dubrovin, et al., 1963]
1636	1	7 and 8	[Kotelnikov and Du Brovin, 1964]	[Kotelnikov, Dubrovin, et al., 1963]
	2	5	[Kotelnikov and Du Brovin, 1963]	[Kotelnikov, Dubrovin, et al., 1963]
	2	Reference 1	Kotelnikov, V. A., and L. V. Apraksin (1962), Radiolokatsionnaya Ustanovka, Ispolyovavshayaacya pru Radio-lokatsii, Radiobeka. i Electron. **7,** No. 11, 1851–1859	Kotelnikov, V. A., Apraksin, L. V., et al., (1962), Radioteckhnika and Elektronika, **VIII,** No. 11, 1962.
		Reference 2	Kotelnikov, V. A., and B. M. Du Brovin	Kotelnikov, V. A., Dubrovin, V. M., et al.
		Reference 3	Kotelnikov, V. A., and B. M. Du Brovin (1964), Supplement No. 9	Kotelnikov, V. A., Dubrovin, V. M., et al., (1964), Priroda No. 9.
1653	2	Fig. 19	ODELEVSKII AND LENIN	ODELEVSKII AND LEVIN
1685	2	5 from bottom.	exclude a priori	a priori exclude
1686	2	Eq (8)	$\left(\frac{X_B}{cX_s}\right)^{\mu}\cdot e^{\frac{-\mu XB}{cx_s}}$	$\left(\frac{X_B}{cX_s}\right)^{\mu}\cdot e^{\frac{-\mu X_B}{cX_s}}$
		Eq (9)	$\frac{1}{1-\frac{X_B}{cX_s}}$.	$\frac{1}{1-\frac{X_B}{cX_s}}$
1687	1	Eq (10)	$P_\beta = C$	$P_\beta = c$
1689		Fig. 4	*Legend:* Control circuits Time Signals Echo detection circuits	*Legend* > Control circuits > > Time Signals > > > Echo Detection circuits
1689	2	2	Toulousse	Toulouse
		3	Annuales	Annales
		11	Project Luna, M I T	Project Luna See, M I T