Yang Ph.D. Thesis Errata 3-18-92

The following were discovered after the thesis was bound:

Page 31, Third line from bottom
"Hendricks" should read "Hendricks and Marble"
Page 32, Line 2
"Hendricks" should read "Hendricks and Marble"
Page 32, Lines 3 and 4
"his" should read "their"
Page 32, Line 11
"R" should read "R_0"
Page 32, Line 21
The expression should read

$$= \frac{|\nabla\rho|}{\rho} \frac{\Delta p}{\rho} \sin\theta \int_0^\infty \delta(x - V_s t)\, dt$$

Page 32, Line 22
The expression should read

$$= \frac{1}{V_s} \frac{\Delta\rho}{\rho} \frac{\Delta p}{\rho} \sin\theta\ \delta(R - R_0).$$

Page 32, Line 25
The expression should read

$$= \int_{r=0}^{\infty} \int_{\theta=0}^{\pi} \frac{1}{V_s} \frac{\Delta\rho}{\rho} \frac{\Delta p}{\rho} \sin\theta\ \delta(R - R_0)\ r\ dr\ d\theta$$

Page 33, Top of Table 5.1
"Hend." should read "H-M"
Page 34, Line 6
"Hendricks (Hend.)" should read "Hendricks and Marble (H- M)"
Page 34, Lines 10 and 14
"Hendricks" should read "Hendricks and Marble"
Page 34, First line of Footnote 9
The expression should read

$$\overline{\omega}(r,\theta) = (1/V_s)\ (\Delta\rho/\rho)\ (\Delta p/\rho)\ \sin\theta\ \delta(R - R_0)$$

Page 34, Second line of Footnote 9
The expression should read

$$\overline{\omega}(r,\theta) = \overline{\omega}_{max}\ \sin\theta\ \delta(R - R_0)$$

Page 35, Line 11
The expression should read

$$\tau = \frac{H\ W}{\Gamma}$$

Page 38, Line 6
The expression should read

$$\overline{U} = \frac{\overline{\Gamma}}{2\pi} \left[\frac{1}{2\overline{y}_\infty} + \sum_{n=1}^{\infty} \left\{ \frac{1}{2n\overline{h}} - \frac{1}{2n\overline{h} - 2\overline{y}_\infty} \right\} + \sum_{n=1}^{\infty} \left\{ \frac{1}{2n\overline{h} + 2\overline{y}_\infty} - \frac{1}{2n\overline{h}} \right\} \right]$$

Page 40, Line 6
The last integral should read

$$\frac{2}{3}\int_0^{\pi} \overline{R}_B^3(\theta,\epsilon)\ cos\theta\ d\theta$$

Page 44, Line 23
The expression should read

$$\overline{p}_1^2 = \frac{1}{8}\overline{\omega}\overline{R}_0$$

Page 45, Line 7
The expression should read

$$\overline{p}_2^3 = -\frac{1}{32}\overline{\omega}\overline{R}_0$$

Page 45, Line 23
The expression should read

$$\overline{p}_3^4 = \frac{1}{96}\overline{\omega}\overline{R}_0$$

Page 46, Line 12
The expression should read

$$\overline{p}_4^5 = -\frac{1}{256}\overline{\omega}\overline{R}_0$$

Page 46, Line 16
The expression should read

$$\overline{r}_5 = \frac{1}{64}\overline{R}_0 cos\theta - \frac{3}{128}\overline{R}_0 cos5\theta.$$

Page 47, Line 3
The expression should read

$$\overline{p}_1^6 = -\frac{7}{384}\overline{\omega}\overline{R}_0$$

Page 47, Line 4
The expression should read

$$\overline{p}_5^6 = \frac{1}{640}\overline{\omega}\overline{R}_0$$

Page 47, Line 20
The expression should read

$$\frac{\overline{R}_B}{\overline{R}_0} = 1 - \Big(\frac{1}{4}cos2\theta\Big)\epsilon^2 + \Big(\frac{1}{16}cos3\theta\Big)\epsilon^3 + \Big(-\frac{1}{64} + \frac{5}{192}cos4\theta\Big)\epsilon^4 + \Big(\frac{1}{64}cos\theta - \frac{3}{128}cos5\theta\Big)\epsilon^5 + \Big(-\frac{1}{1024} + \frac{21}{512}cos2\theta + \frac{77}{15360}cos6\theta\Big)\epsilon^6 + O(\epsilon^7)$$

Page 54, Line 6
The expression should read

$$\omega = \frac{1}{V_s}\ \frac{\Delta\rho}{\rho}\ \frac{\Delta p}{\rho}\ sin\theta\ \delta(R - R_0)$$

Page 54, Line 8
The expression should read

$$I_x(\bar{t} = 0^+) = \int_{r=0}^{\infty}\int_{\theta=0}^{\pi}\Big(\frac{1}{V_s}\ \frac{\Delta\rho}{\rho}\ \frac{\Delta p}{\rho}\ sin\theta\ \delta(R - R_0)\Big)(\rho r sin\theta)(r dr d\theta)$$

Page 54, Line 11

The expression should read

$$= \frac{\pi}{2}\frac{1}{V_s}\,\frac{\Delta p}{\rho}\,\Delta\rho\,R_0^2\,.$$

Page 82, Line 16

The word "Computation" ends the header and the word "The" begins a new paragraph

Page 85, Line 13

"(Figure 7.36" should read "(Figure 7.36)"

Page 96, Line 12

The expression should read

$$f_s = \frac{2(2)}{2(2) + 3.76(28) + 2(16)} = 0.028.$$

Page 96, Line 17

The expression should read

$$f \approx 1.5 f_s = 1.5(0.028) = 0.042.$$

Page 207

$\tilde{e}_n$ should read $\hat{e}_n$

Page 338, Figure 8.3

"EARLY" and "LATE" should be switched in the legend