Omissions

Insert the following index entries:

$\sqrt{13}$, 207, 208

709, 169-71, 173, 177

8, 196

Makino, 28

Updates

1. p.324, Appendix A, (5): In the most recent versions of Starlab, the commands are renamed as `makesphere` and `flat_hermite`. *(P. Teuben)*

Errata

1. On p.61, equation between (7.8) and (7.9): delete G *(Winston Sweatman)*

2. On p.108, Problem 2, line 2: for *remanant* read *remnant*

3. On p.225, line 11: for $-24m\phi_c$ read $-8m\phi_c$ *(Phil Breen)*

Further Hints on the Exercises

1. Problem 1, p.102, is not very well posed. Suppose that

$$\langle f \rangle \equiv \frac{1}{\delta J} \int_J^{J+\delta J} f(J,0,t)dJ,$$

in other words, we average over J for a fixed value of $\theta = 0$. Using the hint on p.318, the worst error occurs when δJ is a half-odd integer multiple of the period of f, say $\left(n + \frac{1}{2}\right)\frac{2\pi}{t}$. Then the error satisfies $\left|\langle f \rangle - \frac{1}{2}\right| = \frac{1}{2n+1} < \epsilon$ if $\delta J > \frac{\pi}{t\epsilon}$. *(Kakiichi koki)*

1