Errata from *Solar Sailing* 2016 Feb 24th
Errata SS.docx

pxxy
page xx
y = t top of page
y = m middle of page
y = b bottom of page

Publisher's page m Misspelling of Heidelberg
p14m Change "between" to "among".
p18t eq.1.3 $I_{sp} = [\Delta v / g][\ln(1/R)]^{-1}$
eq.1.4 $I_{sp} \sim [a_0 T/g][\ln(1/R)]^{-1}$
p39m eq.2.22 $(\cos^2\alpha)\mathbf{n}$
p44m eq.2.44a should be $P(r) = [P^*(r)][F(r)]$
p48b eq.2.54 missing factor of "A" (area) on RHS.
p50t Fig.2.9 Forces on LHS of diagram are high by a factor of two.
p53m Table 2.2 "C"s should be lower case. c_1 c_2 c_3
p53b "nett" is British for "net"
p67t Fig. 3.5 Script "l" on diagram and Roman "l" of text are the same.
Script $l \approx \lambda_{IR}/4$ is length of radiator. Replace "l" of eqs. with "l".
p83b Change "between" to "among".
P87m Eq.3.34b is missing a factor of R on RHS.
p95t Diagonal arrow from lower edge points wrong direction.
p113b Eq. 4.1 should be $\mathbf{R} = (M\mathbf{r_1} + m\mathbf{r_2})/(M + m)$.
Below eq.4.2b should read "adding" not "subtracting".
p118b Eq.4.13a $\cos^3\alpha$, and eq.4.13 $\cos^2\alpha$
p121m "nett" is British for "net". A German finds it nice as it is.
p122m Should be ordinary < and >, not Karp symbol.
p125b $0<\beta<1/2$ not karp symbol.
p130m eq.4.37a First term on LHS is d^2r / dt^2
eq.4.37b $\cos^2\alpha \sin\alpha$
p130b eq.4.40a exponent on cosine should be 3, not 2. $(\cos^3\alpha)$
eq.4.40b exponent of 2 on α should be on cos. $(\cos^2\alpha)$
p133m Eq. 4.51 should have $\beta - (2/\cos^3\alpha)(\dots)$

continued next page

p134m Table 4.2 has many errors. Terra to Mars

	Hohmann	$\beta = 0.05$	$\beta = 0.1$	$\beta = 0.125$	$\beta = 0.15$	$\beta = 0.1711$
a_0 mm/s^2	-	0.27	0.54	0.67	0.80	1.01
α deg	-	34.84	34.39	34.15	33.91	0.0
γ deg	-	2.27	4.66	5.91	7.19	varies
T days	259.	875.	431.	342.	283.	284.
Δv_1 km/s	2.95	1.24	2.52	3.18	3.85	0.0
Δv_2 km/s	2.65	1.00	2.04	2.57	3.12	4.58
Δv_T km/s	5.60	2.24	4.56	5.75	6.96	4.58

If $\beta = 0.1711$, set $\alpha = 0$, perihelion will be at Mars orbit.

p138t eq.4.12 +/-

p138m eq.4.58a "tan" should not be there, just $\alpha \sim$ on LHS

p139b $f/2\pi$ not inverse

p144m should cos$f$ be cos($f + \omega$) ?

p148/149 Suspect printing errors. Should final [term] of eq.4.82a be [$\mathbf{n} \bullet 2(\mathbf{r}\hat{} \bullet \mathbf{n})\mathbf{r}\hat{}$) ? No

p174b eq.5.3b Missing – sign?

p192t eq.5.50a $((\cos\alpha)(\rho/r) - \sin(z/r))$

eq.5.50b $((\sin\alpha)(\rho/r) + \cos(z/r))$ noting sign change

p205 Karp symbols should be < and > .

p212b Eq.5.113 lacks $(1/\cos^2\varphi)$ in rightmost term per p202b.

p216b $\mu = m_2 / (m_1 + m_2)$

p226m "occurs at a light" should be "occurs at a lightness"

p275m Should be U/c << 1, without Karp symbol. Same at bottom of page, and on p276 and p278.

P279m eq.7.26 P′ = [dE′/dt′] = P[dE′/dE][dt/dt′] Correct?

P280m eq.7.33 $\beta(\tau) = (\tau - \tau_o)/\tau$