

Errata discovered in Toroidally Confined Plasmas
Plus improvements and additions

Second edition

Chap 1

Eq 1.25 last term first line, should be $-\vec{e}_\alpha \cdot \partial_\beta \vec{e}_\kappa$, indices α, β switched

Eq 1.30 lhs should be $\nabla\zeta$

bottom p 11 Remove the subscript p in first expression, eliminate second expression, making

$$(1/2\pi) \int (\vec{B} \cdot \nabla\zeta) \mathcal{J} d\zeta d\theta d\psi = 2\pi\psi,$$

Chap 2

Eq 2.31 The denominator should be $\mathcal{J}q$, not q

Improved discussion after Eq 2.43 and added Prob 7

Chap 7

Improved energy transfer section and added the bounce frequency fishbone Added problem 1, pendulum

Chap 9

Eq 9.5 should be $(a, z)_s$, and line above should read "including the slow ..."

Revised Second Edition

Chap 2

page 34, 35 The expression for toroidal section before Eq 2.15 is wrong. It should be $\nabla\zeta'$, not $\nabla\theta$.

Eq 2.43 $\vec{\zeta}$ should be $\nabla\zeta$

Chap 3

After Eq 3.8 there should be the remark that terms of second order in gyro radius have been dropped, ie terms in w^{*2} without a factor of $\text{dot}(\xi)$.

Eq 3.27 third row P_θ not P_ζ , last row $-\partial_\psi P_\zeta$