

Special Topics in Plasma Physics

By Bryan Taylor

Recommended References

Prof. Taylor recommended a number of articles to supplement the course material.

Lectures 4-8:

'Relaxation and Magnetic Reconnection in Plasmas' J. B. Taylor *Rev. Mod. Phys.* Vol **58** p741 (1986)

File: Special Topics in Plasma Physics – Bryan Taylor_paper1_relaxreconnectRevModPhys1986.pdf

Lecture 14:

'Magnetic Wells Part I' p449-457

from 'Plasma Physics: Lectures presented at the seminar on plasma physics, organized by and held at the International Centre for Theoretical Physics, Trieste, from October 5-31', 1964 (International Atomic Energy Agency, Vienna, 1965)

File: Special Topics in Plasma Physics - Bryan Taylor_paper2_magwells1p449PlasmalecturesTrieste1964.pdf

Lecture 15:

'Magnetic Wells Part I' p456-462 (source as above)

File: Special Topics in Plasma Physics - Bryan Taylor_paper3_magwells1p456PlasmalecturesTrieste1964.pdf

Lecture 16:

'Magnetic Wells Part II' p462-473 (source as above)

File: Special Topics in Plasma Physics - Bryan Taylor_paper4_magwells2p462PlasmalecturesTrieste1964.pdf

Lecture 17:

'Magnetic Wells Part III' p473-481 (source as above)

File: Special Topics in Plasma Physics - Bryan Taylor_paper5_magwells3p473PlasmalecturesTrieste1964.pdf

Lectures 18-21:

'High Mode Number Stability of an Axisymmetric Toroidal Plasma' J. W. Connor, R. J. Hastie and J. B. Taylor *Proc. R. Soc. Lond. A.* Vol **365** p1 (1979)

File: Special Topics in Plasma Physics - Bryan Taylor_paper6_BallooningTransformationProcRoySoc1979.pdf

Additional:

'Some Recent Advances in Plasma Stability Theory' J. B. Taylor *Phys. Bl.* Vol **35** p611 (1979)

File: Special Topics in Plasma Physics - Bryan Taylor_paper7_AdvancesPlasmaStabilityTheoryPhysBl1979.pdf

Further reference material used in the compilation of **Lectures 6 – 13** is detailed in the file: Special Topics in Plasma Physics - Bryan Taylor_Refs.pdf

Reference Material Copyright

Please note, the reference material accessible here has been made available in this format with kind permission from the International Atomic Energy Agency (IAEA) (papers 2 – 5) and Culham Centre for Fusion Energy (CCFE formerly UKAEA Culham), UK (papers 1, 6 – 7).