

Space Physics – Advanced Option – Dr. M. K. Dougherty

Solar Wind Interaction with Planetary Bodies

In addition to the information gleaned from the lecture on 24th November 2003 on this topic, you will need to do the following additional reading:

The two text books in question were both mentioned at the start of the course as recommended reading and are available in the departmental libraries, they are:

- Physics of Solar System Plasmas, by Thomas E. Cravens
- Introduction to Space Physics , edited by Margaret G. Kivelson and Christopher T. Russell.

It will be informative for you to read Chapter 7 from the Cravens book and Chapters 8 and 15 from Kivelson and Russell; and listed below are the sections from those chapters that are examinable.

Examinable material:

Cravens - Chapter 7

Sections

7.1.1, 7.1.2,
7.2, 7.2.1, 7.2.2, 7.2.3,
7.3, 7.3.1, 7.3.3 (from start of section to the end of 1st sentence on page 290),
7.4, 7.4.1, 7.4.2 (from start of section to end of line 12 on page 311),
7.4.3 (from start of section to end of line 10 on page 316),
7.4.4

Kivelson and Russell – Chapter 8

Sections

8.1,
8.2 to end of line 17 on page 206,
8.3.1 to end of line 7 on page 208,
8.3.2 to end of line 26 on page 222,
8.4

Kivelson and Russell – Chapter 15

Sections

15.1,
15.2,
15.3

In addition, you will receive a Problem sheet and solutions on this topic in the next week or two.