

2005d

“Spacecraft Attitude Determination and Control,” M. D. Shuster and W. Dellinger, Chapter 5 in V. L. Pisacane (ed.), *Fundamentals of Space Systems*, 2nd ed., Oxford University Press, ISBN 0-19-516205-6, June 2005, pp. 236–325.

The most significant changes in Chapter 5 from the first edition are the modernization of the mission examples, a fuller discussion of gyros, and a fuller treatment of PID controllers, added by Wayne Dellinger. Overall, the level of the book (but not Chapter 5) has been lowered in an attempt to make the book more suited to an undergraduate course, a mistake, in my opinion. Chapter 5 remains at its earlier level. In fact, the most difficult material, on the attitude representations and attitude dynamics, I was required to learn in the first semester of my junior year (in 1963). Because I fear the wrath of Oxford University Press, 2005d does not appear in the collection.

The second edition of this chapter has about 90% overlap with the first edition.

Superseded 1994c.