



III. the celestial sphere

- i. introduction
- ii. coordinate systems
 - a. the horizontal coordinate system
 - b. the equatorial coordinate system
 - c. the ecliptic coordinate system
 - d. the galactic coordinate system
- iii. timekeeping systems
 - a. sidereal time
 - b. solar time
 - c. universal time
 - d. the calendar
- iv. example problems