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Astronomical Formula **ASTRONOMICAL FORMULA MAGNIFICATION: BY FIELDS**  $M = \text{Alpha}/\text{Theta}$  where M is the magnification Alpha is the apparent field Theta is the true field Apparent Field: the closest separation eye can see is 4', more practically 8-25', 1-2' for good eyes.

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talk about these astronomical concepts. Most of these skills are grade school level arithmetic skills, so you don't have to be a mathematics major to understand the mathematical concepts necessary to do well in an introductory astronomy class. Honestly, you don't even have to like math. What you

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Many astronomical formulas involve angles. If you turn around once and end up facing in the same direction, then you've swung through an angle of 360 degrees . So, two directions that differ by a multiple of 360 degrees are equivalent, and you can always reduce any angle to an equivalent angle that is between 0 and 360 degrees, by subtracting a suitable multiple of 360 degrees.

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Book Summary: The title of this book is Astronomical Formulae for Calculators and it was written by Jean Meeus. This particular edition is in a Paperback format. This books publish date is Unknown

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and it has a suggested retail price of \$14.95. It was published by Willmann-Bell and has a total of 214 pages in the book.

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Most of the formulae for converting coordinates from one system to another, precession, planetary aberrations, calendars, and similar, which do not change much over time, are perfectly accurate and useful.

### **Astronomy Calculator Index**

Jean Meeus is a Belgian meteorologist and amateur astronomer specializing in celestial mechanics, spherical astronomy, and mathematical astronomy. Meeus studied mathematics at the University of Leuven in Belgium, where he received the Degree of Licentiate in 1953. From then until his retirement in 1993, he was a meteorologist at Brussels Airport.

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how to use the ideal gas law equation and what is the definition of an ideal gas constant.

### **Astronomical Formulae for Calculators: Jean Meeus ...**

Both books cover pretty much the same ground although this book is oriented specifically to using calculators. If you can afford it go for the 2005 version of "Astronomical Algorithms". It includes all in "Astronomical Formulae for Calculators" I read this book as a precursor to Meeus' treatise on "Astronomical Algorithms".

### **Useful Formulae**

We solve the formulae of celestial navigation calculating computed (estimated) Altitude and Azimuth using "Altitude - Azimuth" worksheet : Difference of altitude = true altitude - computed altitude:  $30^{\circ} 04,5' - 30^{\circ} 02,6' = + 1,9'$ . Now we can draw the graph: The last worksheet is named "meridian altitude".