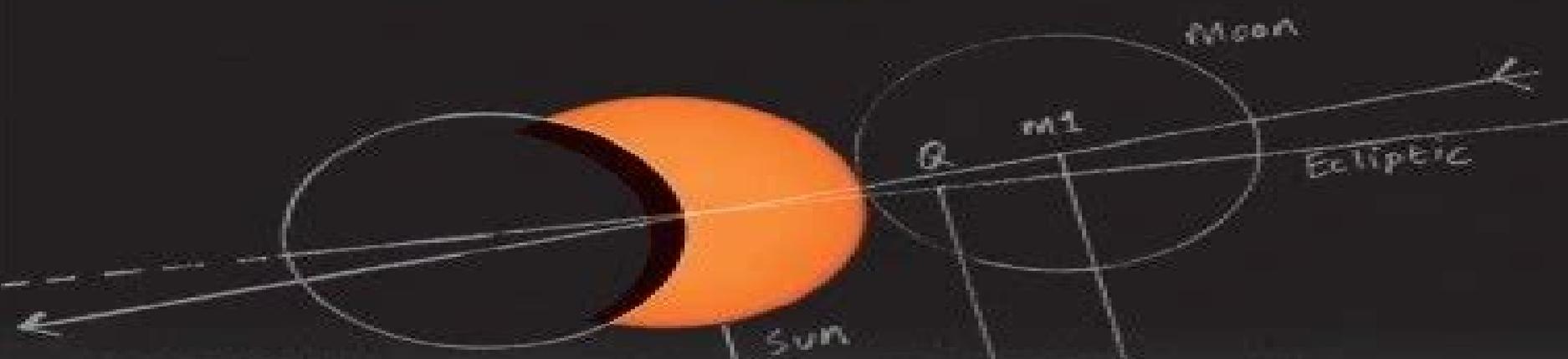


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Peter Duffett-Smith and Jonathan Zwart



Input	Value	Formula	Formula
1	Julian date of new Moon	2457191.902	=NewMoon(C3,C7,C7,C7,C7)
2	G date of new Moon (day)	20 4020 1849	=INT(C11)
3	integer day	20	=INT(C10)
4	G date new Moon (month)	3	=JDCMonth(C11)
5	G date of new Moon (year)	2015	=JDCYear(C11)
6	UT of new Moon (hours)	9.648443766	=C12-C13/24
7	local civil time (hours)	9.648443766	=UTLCT(C16,0,0,C6,C7,C13,C14,C15)
8	local civil date (day)	20	=UTLCDay(C16,0,0,C6,C7,C13,C14,C15)
9	local civil date (month)	3	=UTLCLMonth(C16,0,0,C6,C7,C13,C14,C15)
10	local civil date (year)	2015	=UTLCLYear(C16,0,0,C6,C7,C13,C14,C15)
	Solar eclipse certain		=SEOccurrence(C6,C7,C3,C4,C5)
		9.947296821	=UTMaxSolarEclipse(C3,C4,C5,C6,C7,C8,C9)
		8.920277911	=UTFirstContactSolarEclipse(C3,C4,C5,C6,C7,C8,C9)
		10.97431573	=UTLastContactSolarEclipse(C3,C4,C5,C6,C7,C8,C9)

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web lm35's output is 10mv/degree c which means for every degree rise in temperature the output of lm35 will rise by 10mv so if the output of lm35 is 220mv (0.22v) the temperature will be 22 c so if room temperature is 32 c then the output of lm35 will be 320mv (i.e. 0.32v) for detailed information check out basic's of lm35 temperature sensor

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web the lm35 is easy to use just connect the left pin to power 4v to 30v and the right pin to ground assuming the flat side of the sensor is facing you then the middle pin will have an analog voltage that is directly proportional linear to the temperature in c

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web characteristics of ic lm35 lm35 does not require external calibration with an accuracy of $\frac{1}{4}$ c at room temperature or $\frac{3}{4}$ c for the measurement range of 55 to 150 c it has a low output impedance linear output easy to operate and combined with the next circuit such as the control circuit lm35 can be operated with a single

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web it measures temperatures in any environment and all hvac applications using lm35 temperature to calculate the temperature the following steps will help you use an lm35 sensor to calculate the temperature start by building the circuit in the circuit ensure you connect gnd to the ground then power lm35 vcc with 5 operating voltage vs

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