

29. The Heat Index HI , Calculated from the air temperature and relative humidity, is the apparent temperature felt by the body. An equation used by the National Weather Service for calculating the HI is given by:

$$HI = -42.379 + 2.04901523T + 10.14333127R - 0.22475541TR - 6.83783 \times 10^{-3}T^2 - 5.481717 \times 10^{-2}R^2 + 1.22874 \times 10^{-3}T^2R + 8.5282 \times 10^{-4}TR^2 - 1.99 \times 10^{-6}T^2R^2$$

where T is the temperature in degrees F, and R is the relative humidity in integer percentage. Write a MATLAB program in a script file that displays the following chart of Heat Index for given air temperature and relative humidity in the Command Window:

	Temperature (F)							
Relative Humidity (%)	80	82	84	86	88	90	92	94
50	81	83	85	88	91	95	99	103
55	81	84	86	89	93	97	101	106
60	82	84	88	91	95	100	105	110
65	82	85	89	93	98	103	108	114
70	83	86	90	95	100	106	112	119
75	84	88	92	97	103	109	116	124

Solution

Script file:

```
clear, clc
Ts=80:2:94;
T=[Ts;Ts;Ts;Ts;Ts;Ts];
RH=[50:5:75]';
R=[RH RH RH RH RH RH RH RH];
A=-42.379; B=2.04901523; C=10.14333127; D=-0.22475541;
E=-6.83783E-3; F=-5.481717E-2; G=1.22874E-3; H=8.5282E-4;
I=-1.99E-6;
HIT=round(A+B*T+C*R+D*T.*R+E*T.^2+F*R.^2+G*T.^2.*R+H*T.*
R.^2+I*T.^2.*R.^2);
disp('
Temperature (F)')
fprintf('
')
fprintf(' %3.0f',Ts)
fprintf('\n Relative\n Humidity\n (%) \n')
Table=[RH HIT]';
```

Matlab Chapter Solution

SA Adler



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