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AE 227 – Engineering Digital Computation

Program 1:

Enter the flight number: DL 2463

Enter the airplane capacity: 149

Enter the number of passengers on this flight: 107

Flight DL 2463 is 72% full.

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Program 2:

This is a program to convert a set of rectangular coordinates into spherical coordinates.

Please enter the rectangular coordinates below.

What units will you be using? ("in", "ft", "m", or "km"): ft

X-coordinate? : 2.3

Y-coordinate? : 0.455

Z-coordinate? : -1.3

r is 2.68ft

θ is 11.19°

Φ is -60.99°

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Program 3:

Given a dry-bulb temperature of 77.50 degrees Fahrenheit and

a wet-bulb temperature of 68.30 degrees Fahrenheit, the

relative humidity is 65.90%.

Too humid to be in the comfort zone.

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