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Solution The unit normal  $\mathbf{u}_n$  to the plane of A and B is  $\mathbf{u}_n = \frac{\mathbf{A} \times \mathbf{B}}{|\mathbf{A} \times \mathbf{B}|}$  A B 63 \u00b0 100 \u00b0 j 33k \u00b0 17 10.863 0.3 4 15 \u00b0 i \u00b0 j 78 k \u00b0 The projection  $C_n$  of C in the direction of the unit normal to the plane is  $n \cdot C = \mathbf{u}_n \cdot C = 0.3i + 5 \u00b0 j + 10k \cdot 0.34115i + 0.54141 \u00b0 j + 0.17870k = 0.10289$  C is the hypotenuse of the right triangle whose other two sides are of length  $C_n$  and  $C_{AB}$ , where  $C_{AB}$  lies in the ...

### Solutions Manual Orbital Mechanics for Engineering ...

This textbook evolved from a formal set of notes developed over nearly ten years of teaching an introductory course in orbital mechanics for aerospace engineering students.

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Newton had to invent calculus so he could solve orbital mechanics problems in more than just a heuristic way. Newton (1642–1727) was an English physicist and mathematician whose 1687 publication Mathematical Principles of Natural Philosophy (the Principia) is one of the most in?u- ential scienti?c works of all times. It must be noted that the German mathematician Gottfried Wil-helmvon ...

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