```
function [flight angles] = FlightPathAnglesFromState(aircraft_state)
% Calculates the ground speed, course angle, and the flight path angle
% Inputs:
   aircraft_state -> 12x1 aircraft state
% Output:
   flight angles -> [Vg; chi; gamma] (ground speed, course angle, flight
응
   path angle)
응
% Author: Thomas Dunnington
% Date Modified: 9/30/2024
% Inertial velocity
inertial_vel_body = aircraft_state(7:9);
euler angles = aircraft state(4:6);
% Groundspeed
Vg = norm(inertial vel body);
% Rotate the inertial velocity into the inertial frame
inertial vel inertial = TransformFromBodyToInertial(inertial vel body,
euler angles);
% Calculate the course angle
chi = acos(inertial_vel_inertial(1)/Vg);
% Calculate the flight path angle
gamma = asin(-1*inertial vel inertial(3)/Vg);
flight_angles = [Vg; chi; gamma];
end
Not enough input arguments.
Error in FlightPathAnglesFromState (line 13)
inertial vel body = aircraft state(7:9);
```

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