

Questions from **Automatic Flight Control** by **E.H.J. Pallett, Shawn Coyle**

ISBN: 0632034955 This book is a must have for autopilot studies!

Please answer the the questions below to see what your **Helicopter AFCS** knowledge is!

In what way does the helicopter trim System differ from that of a fixed wing aircraft?

What are the two basic types of actuator arrangements?

In a stability augmentation System, what is the purpose of the stick out of detent switch?

What is the difference between an SAS and an SCAS?

What is the difference between an attitude command/attitude hold System and a rate command/attitude hold System?

In what way does the helicopter stability augmentation System differ from that of a fixed-wing stability augmentation System?

Does an attitude-based stabilisation System require flight control position Sensors?

In an AFCS that uses the cyclic for altitude hold, why is there a lower speed limit on the use of this mode? In an AFCS which has radar altitude hold, why is an additional signal needed in that channel?

In an AFCS which will transition a helicopter from forward flight to the hover, why is it necessary to change the method of Operation of the yaw channel pari way through the manoeuvre?