

ANALISI KEMAMPUAN RADAR F-16 DAN SUKHOI SU-30 DALAM RANGKA MENDUKUNG KEBERHASILAN MISI OPERASI MILITER

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ABSTRAK

Radar merupakan salah satu komponen penting dalam perangkat avionik pesawat tempur yang memainkan peran vital dalam mendukung keberhasilan misi operasi militer. Penelitian ini menganalisis peran sistem radar pada pesawat tempur Indonesia guna meningkatkan keberhasilan misi operasi militer. Melalui metode analisis teknis, penelitian ini menyoroti karakteristik teknologi radar, perbandingan radar pada pesawat tempur dan besarnya hambatan yang terjadi dalam pengembangan radar. Hasilnya menunjukkan bahwa radar pada pesawat tempur mampu dalam melakukan misi hingga mampu dalam menghadapi perang elektronika. Selain itu, mengetahui seberapa besar tantangan yang dirasakan dan aspek yang memengaruhi dalam pengembangan radar pesawat tempur Indonesia.

Kata kunci : Radar, Pesawat Tempur, Keberhasilan Misi Operasi Militer

ANALYSIS OF THE RADAR CAPABILITY OF F-16 AND SUKHOI SU-30 TO SUPPORT THE SUCCESS OF MILITARY OPERATION MISSIONS

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ABSTRACT

Radar is one of the important components in the avionics equipment of fighter aircraft that plays a vital role in supporting the success of military operation missions. This research analyzes the role of radar systems on Indonesian fighter aircraft to improve the success of military operation missions. Through the technical analysis method, this research highlights the characteristics of radar technology, the comparison of radar on fighter aircraft and the magnitude of obstacles that occur in radar development. The results show that radars on fighter aircraft are capable of performing missions to the point of being able to deal with electronic warfare. In addition, the perceived challenges and influencing aspects in the development of Indonesia's fighter aircraft radar were identified.

Keywords : Radar, Fighter Plane, Military Operation Mission Success