

Perancangan klasifikasi Spare Part Inventory dengan pendekatan Fuzzy Analytic Hierarchy Process untuk Aircraft Part dan rekomendasi kebijakan dalam pengelolaan inventori = Classification design of multi criteria Spare Part Inventory using Fuzzy Analytic Hierarchy process approach for Aircraft Part and policy recommendation in inventory management

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Abstrak

Penelitian ini bertujuan untuk memperoleh rancangan pengelompokan multi variabel spare part inventory untuk aircraft part menggunakan pendekatan Fuzzy Analytic Hierarchy Process (FAHP) yang mudah diaplikasikan dan mempermudah dalam pengelolaan dan penentuan kebijakan terhadap inventori spare part berdasarkan pengelompokannya. Pengelompokan inventori ini dilakukan berdasarkan 5 kriteria utama yaitu criticality, lead time, demand pattern, supplier sourcing dan unit price. Hasil penelitian menunjukkan criticality mempunyai bobot prioritas tertinggi dalam pengelompokan inventori. Penggunaan metode Fuzzy AHP terbukti dapat memberikan hasil yang reliable karena dapat mengakomodasi subjektivitas dalam pengambilan keputusan.

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This research is aimed at gaining classification design of multi-criteria spare part inventory for aircraft part using Fuzzy Analytic Hierarchy Process (FAHP) approach which can be applied easily as well as facilitate the management and the determination of policy toward spare part inventory based on the classification. The inventory classification carried out is grounded on 5 main criteria e.g. critically, lead time, demand pattern, supplier sourcing, and unit price. The study result indicates that critically shows the highest quality of priority in inventory classification. Fuzzy AHP method proves to be able to give a reliable result because it can accommodate subjectivity in a decision making.