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# METODA ONICESCU ÎN CADRUL SFF - STUDIU DE CAZ

## ONICESCU METHOD WITHIN A FMS – CASE STUDY

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**Abstract:** This paper presents a method of selecting the initial production load, within a Flexible Manufacturing System (FMS), to determine the structure of the typological nucleus. The method of selecting the initial production load is based on algorithms developed by the Romanian mathematician, Octav Onicescu, the method being applied to determine the structure of the typological nucleus of a FMS, for the first time. The method involves going through three stages of calculation, within each stage being determined intermediate matrices, which will ultimately lead to the determination of a hierarchy based on the scores obtained by each product. The calculation algorithm will be applied on an initial production load consisting of 20 products, defined by six distinct criteria.

**Keywords:** typological nucleus, importance coefficient, Onicescu score