By19850316ArthurGolubev20240928ConceptsAndImplementationChecklistForGeneralSystemEngineering

Concepts and implementation checklist for general system engineering

Concepts part of the checklist:

1 Dimensions of the system:

1-1 What dimensions of the system are;

1-2 What values of dimensions of the system can be;

2 Parts of the system:

2-1 How the system can be divided;

2-2 What set of functions of parts of the system can be;

2-3 How can parts of the system intercommunicate;

3 Storing information in the system:

3-1 What storing information in the system can provide advantages;

4 Parts of the result:

4-1 What and how storable parts of the result can be get once;

4-2 What and how storable parts of the results can be reused decreasing recalculations;

4-3 Which lifetime needs to for each of the part of the result;

Implementation part of the checklist:

5 Intersafeness of the parts of the system:

5-1 How parts of the whole system can control and if required defense and change each other;

6 Reserves of the system:

6-1 What violations of normal processes can be in the system;

6-2 What reserves of the systems are;

7 Costs of variants of implementations in the system:

7-1 What costs (both implementations and maintenance) of variants of implementations in the system are;

8 Interaction of the system with other world:

8-1 What are on the borders of the system with the other world, how to keep it safe and what costs of keeping safety it are;

9 Interaction of the system with users:

9-1 What are the best ways of interacting the system with users;

10 Interaction of the system with technics:

10-1 What are the best ways of interacting the system with technics.

11 Speeds of parts of the system:

11-1 How possible speeds of parts of the system influence on intercommunication of the parts of the system.