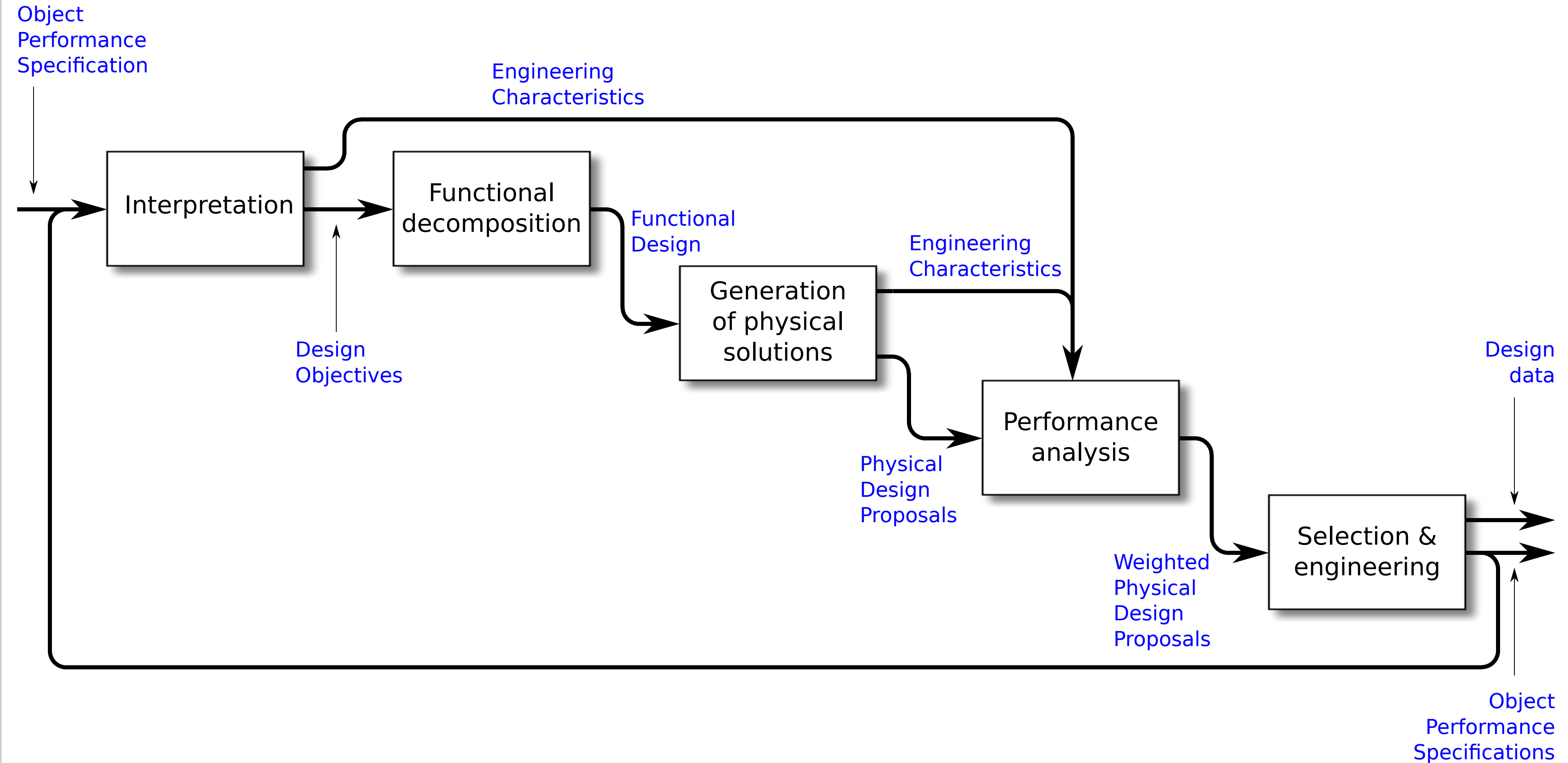


Structured Electronic Design

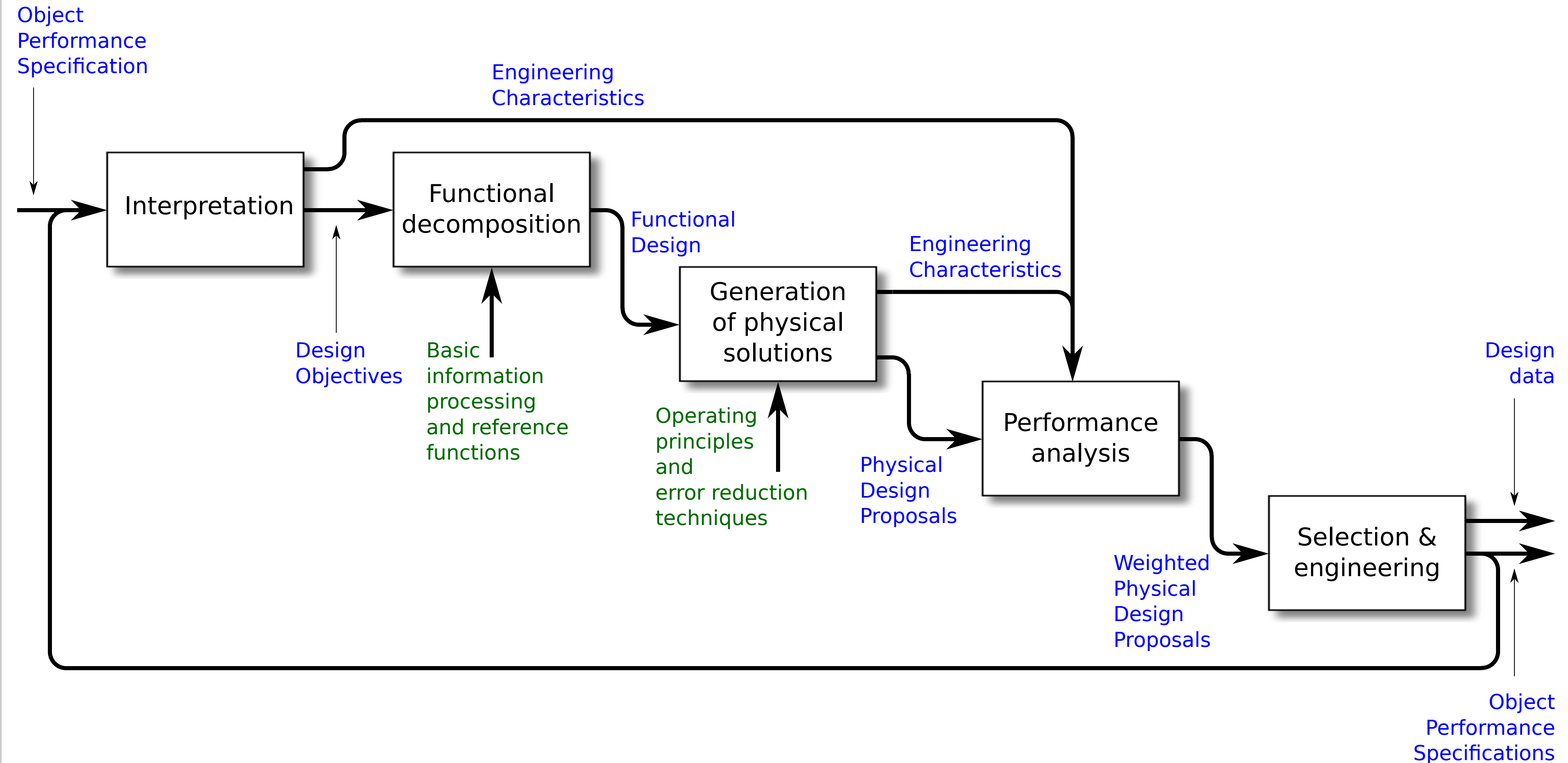
Design sequence for information processing systems

Design of electronic signal processing systems

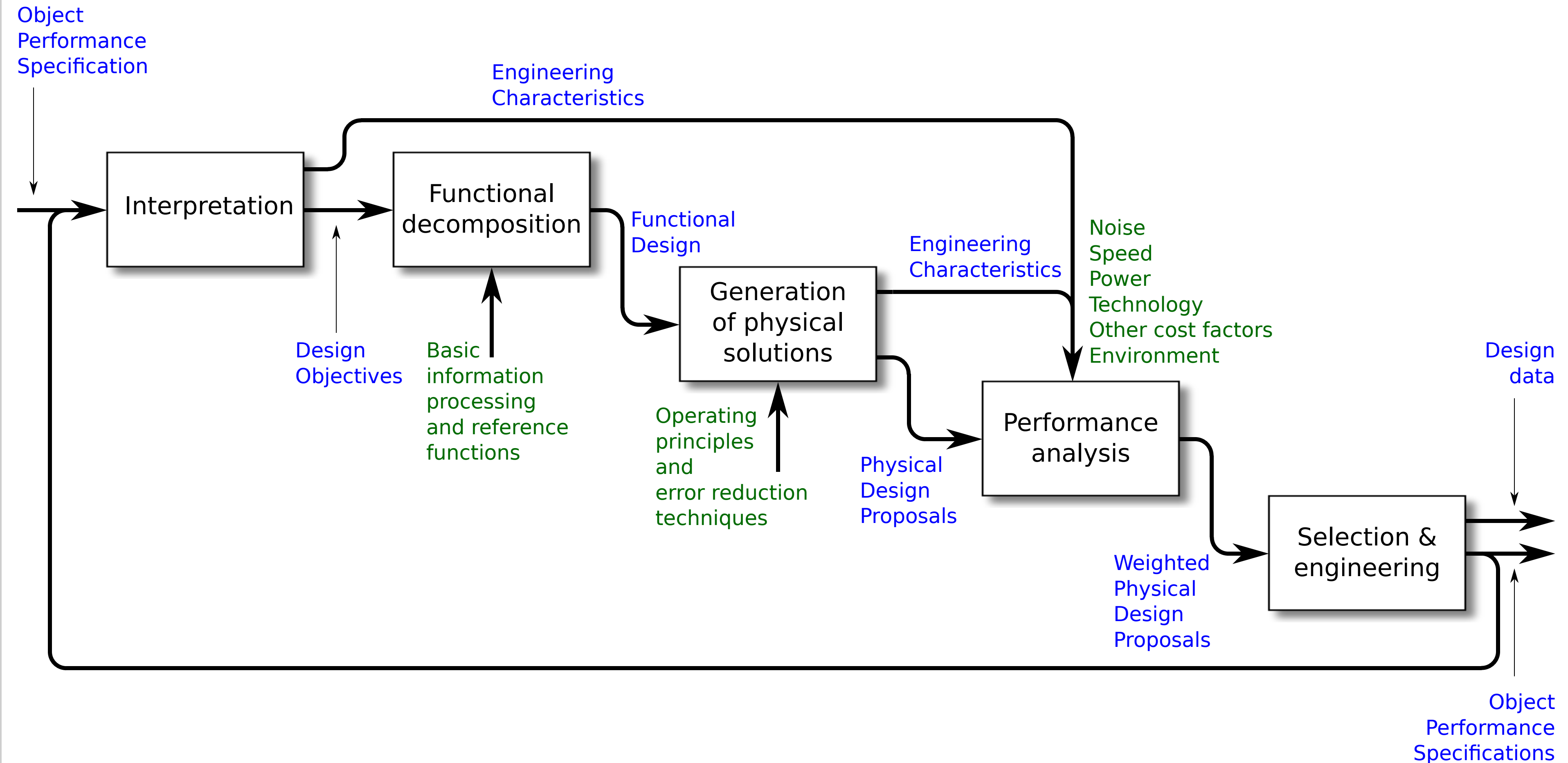


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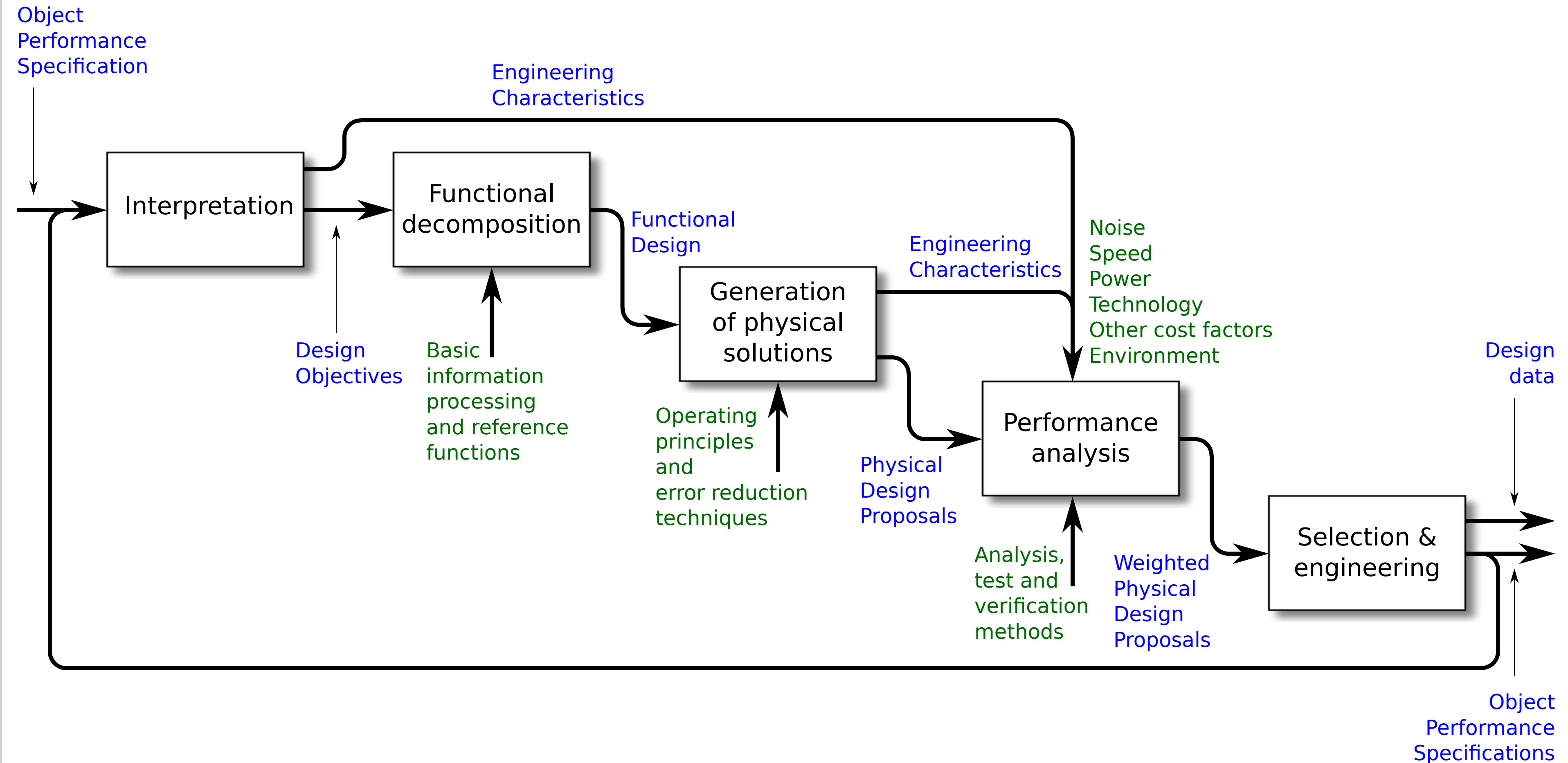
Design of electronic signal processing systems



Design of electronic signal processing systems



Design of electronic signal processing systems



Design of electronic signal processing systems

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graph LR; A[Object Performance Specification] --> B[Interpretation]; B --> C[Functional decomposition]; C --> D[Generation of physical solutions]; D --> E[Performance analysis]; E --> F[Selection & engineering]; F --> G[Design data]; F --> H[Object Performance Specifications]; H --> A; C --> B; D --> C; E --> D; F --> E; G --> A; H --> F; I[Design Objectives] --> B; J[Basic information processing and reference functions] --> C; K[Operating principles and error reduction techniques] --> D; L[Physical Design Proposals] --> E; M[Weighted Physical Design Proposals] --> F; N[Engineering Characteristics] --> C; O[Engineering Characteristics] --> D; P[Noise Speed Power Technology Other cost factors Environment] --> E; Q[Analysis, test and verification methods] --> E;
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The diagram illustrates the design process for electronic signal processing systems, showing a sequence of steps and associated inputs/outputs.

Steps:

- Interpretation
- Functional decomposition
- Generation of physical solutions
- Performance analysis
- Selection & engineering

Inputs/Outputs:

- Object Performance Specification** (Input to Interpretation)
- Design Objectives** (Input to Interpretation)
- Basic information processing and reference functions** (Input to Functional decomposition)
- Operating principles and error reduction techniques** (Input to Generation of physical solutions)
- Physical Design Proposals** (Input to Performance analysis)
- Weighted Physical Design Proposals** (Input to Selection & engineering)
- Engineering Characteristics** (Input to Functional decomposition and Generation of physical solutions)
- Noise Speed Power Technology Other cost factors Environment** (Input to Performance analysis)
- Analysis, test and verification methods** (Input to Performance analysis)
- Design data** (Output from Selection & engineering)
- Object Performance Specifications** (Output from Selection & engineering)

Flow:

- Object Performance Specification and Design Objectives feed into Interpretation.
- Interpretation feeds into Functional decomposition.
- Functional decomposition feeds into Generation of physical solutions.
- Generation of physical solutions feeds into Performance analysis.
- Performance analysis feeds into Selection & engineering.
- Selection & engineering outputs Design data and Object Performance Specifications.
- Object Performance Specifications feed back into the start of the process.
- Design Objectives feed back into Interpretation.
- Engineering Characteristics feed back into Functional decomposition and Generation of physical solutions.
- Physical Design Proposals feed back into Performance analysis.
- Weighted Physical Design Proposals feed back into Selection & engineering.
- Analysis, test and verification methods feed back into Performance analysis.