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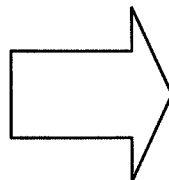
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Introduction

In its most generic form, system layout involves the parameters and components shown schematically in Fig. 1. Seldom are any of these factors completely independent of the others and the layout process is often one of iteration. More likely, the available equipment places constraints on certain parameters and the system optimization must be obtained under these constraints.

Input (User Specified) Parameters

- Flow Field
- Measurement Quantities of Interest
- Required Range and Desired Accuracy



Components and Parameters to be Selected

- Particles and Particle Concentration
- Optical System
- Signal Processing
- Data Processing

Fig. 1. Defining parameters for system layout.