

# Part I: Fundamentals of machine design

## Basic procedure of Design of Machine Element :

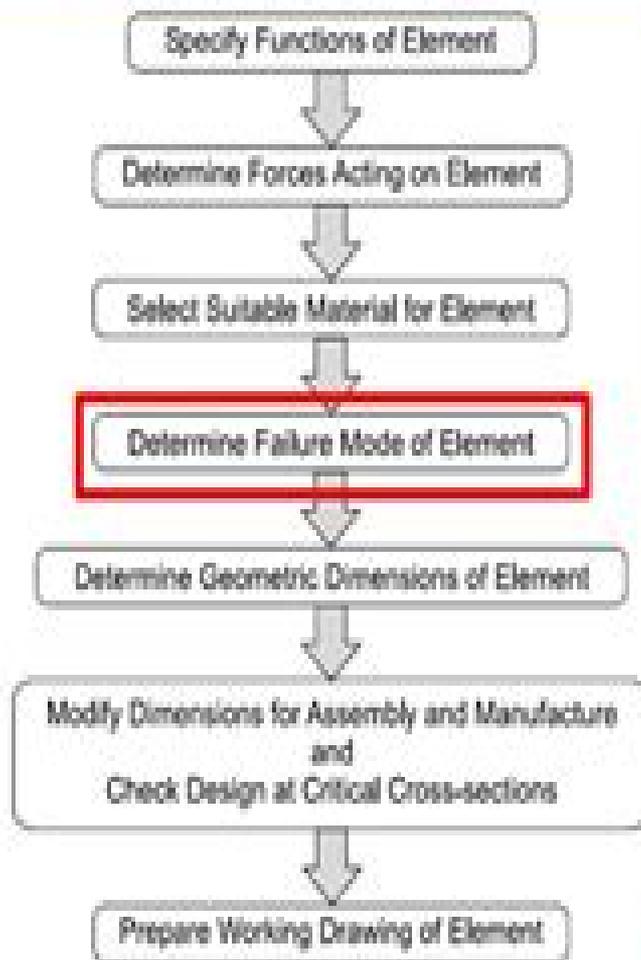


Fig. 1.2 Basic Procedure of Design of Machine Element

### Step 4: Failure Criterion

Before finding out the dimensions of the component, it is necessary to know the type of failure by which the component may fail when put into service.

The three basic types of failure are as follows:

- (i) failure by elastic deflection;
- (ii) failure by general yielding; and
- (iii) failure by fracture.

# Design Machine Elements

**Minjie Lin**



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