Build and Fix

build first

modify until satisfied

operations mode

retirement

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Classic Waterfall Life Cycle

System Engineering

Analysis

Design

Code

Test

Maintenance

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V model

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Waterfall with prototyping
Fountain model
Spiral model

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Incremental Release

Planning and Analysis

Design Version I, I=1..N

Build Version I

Assess Version I

Maintain

I = N?
Object Oriented Life Cycle

user req. → informal req. → analysis → descriptive model → design-construction → classes network

reusable components library

abstraction/generalization