

# Initialization

## Physical Parameters Input

Resistance

Voltage

Non-linearity

## Design Constraints Input

Energy  
Consumption

Area Efficiency  
Requirement

## Basic Matrix Setup

(Generate Matrix Coefficients)

Adjust Programs  
Schemes

## Programming Schemes Setup

(Single/Multi Bit , Floating/ Half Biased)

## Matrix Refinement

(Adjust Edge Condition Coefficients)

# Computation

## Array Size Exporation

Worst Case  
Write Voltage Drop

Read Margin

Array Size=  
Max Array Size

Array Size = 0 ?

Yes

No

## Energy Consumption / Area Efficiency Calculation

Meet Energy/Area  
Constraints ?

Decrease  
Array Size

No

Yes

## Output Results

Array Size, Energy Consumption, Area