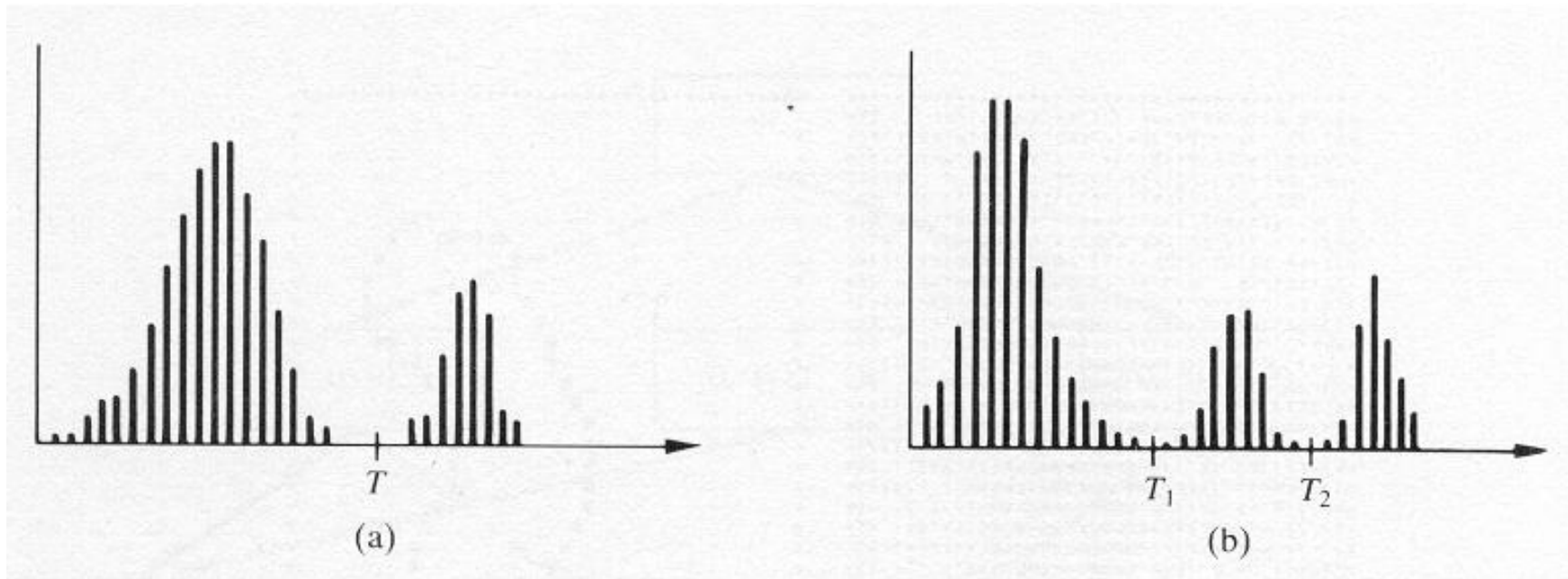


Image Thresholding

Foundation

- Grayscale image can be converted to binary image by using thresholding



Definitions



Definitions

- ▶ During the thresholding process, individual pixels in an image are marked as
 - ▶ “object” pixels if their value is greater than some threshold value (assuming an object to be brighter than the background), and
 - ▶ “background” pixels if their value is less than threshold value

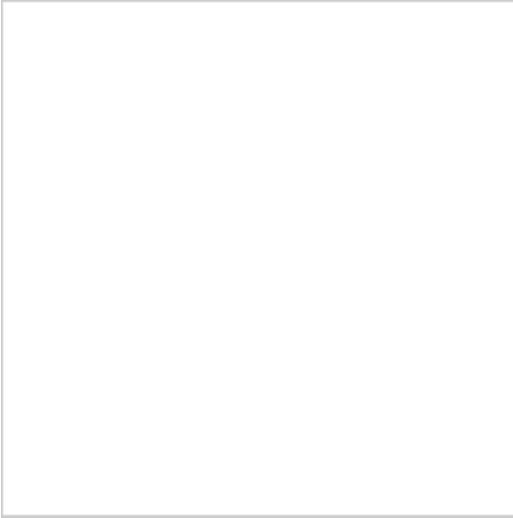


Definitions

- ▶ During the thresholding process, individual pixels in an image are marked as
 - ▶ “object” pixels if their value is greater than some threshold value (assuming an object to be brighter than the background), and
 - ▶ “background” pixels if their value is less than threshold value
- ▶ Typically, an object pixel is given a value of “1” while a background pixel is given a value of “0”
- ▶ The key parameter in the thresholding process is the choice of the threshold value

Step 1:

Threshold value 0



Step 2:

Threshold value 10



Step 3:

Threshold value 25



Step 4:

Threshold value 50



Step 5:

Threshold value 75



Step 6:

Threshold value 100



Step 7:

Threshold value 125



Step 8:

Threshold value 150



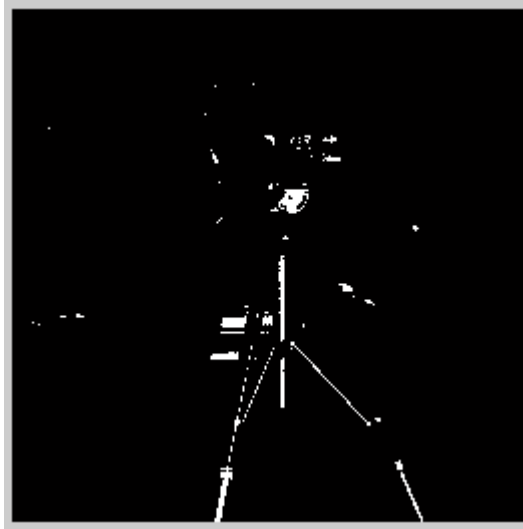
Step 9:

Threshold value 175



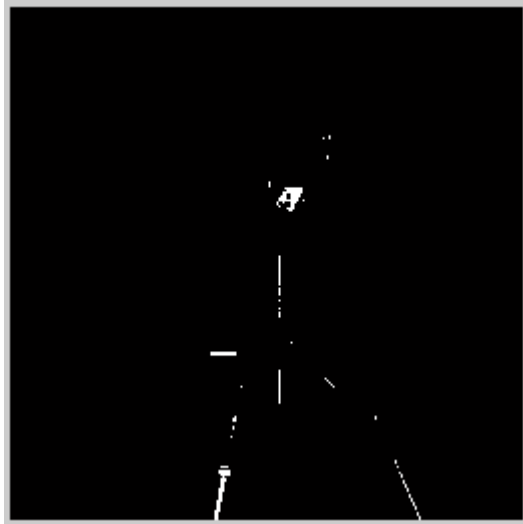
Step 10:

Threshold value 200



Step 12:

Threshold value 230



Step 14:

Threshold value 255

