

# Chapter 15

## Bistable vs. Gray scale

Bi means two, which means bistable images are 2 shades (black and white)

Grayscale images present multiple levels of brightness (white, light gray, medium gray)

## Display Controls

1. **Contrast:** determines the range of brilliancies within the displayed image

Black and White (Bistable) = high contrast

2. **Brightness:** determines the brilliance of the displayed image

*Scan converters - translate information from spoken format into video format.*

## Analog vs. Digital Numbers

Analog numbers are "real world" numbers and can have an unlimited and continuous range of values.

Digital Numbers are associated with computer devices and have only discrete values

Analog Numbers	Digital Numbers
• real world	• computer world
• unlimited # of choices	• limited choices
• continuous values	• discrete values

**Analog Scan Converter** : a funnel shaped vacuum tube with an electron gun

- Electrons contain the image information and are shot out of the electron gun, the larger end of the tube contains the "dielectric matrix" or "silicon wafer"
- Spatial resolution is the image detail

# Chapter 15 Physics Study Guide

**Mark Steyvers**



## **Chapter 15 Physics Study Guide:**

## Decoding **Chapter 15 Physics Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 15 Physics Study Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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