

- * absolute threshold
- * difference threshold/1nd
- * Weber's Law

* signal detection theory:
(hits, misses, false alarms, correct rejections)

* subliminals

INTRODUCTION TO 'SENSATION'

- * "Psychophysics"
- * transduction
- * selective attention
- * divided attention
- * cocktail party effect

* inattentional blindness; change blindness

- * Basic ear anatomy
- * cochlea
- * hair cells
- * ossicles & tympanic membrane

* sound localization

* the auditory cortex

HEARING

- * conduction deafness
- * sensorineural/nerve deafness

- * place theory
- * frequency theory
- the volley principle

- * motion detector cells
- * feature detector cells

- * color vision theories
- opponent-process
- trichromatic
- * color "blindness"

VISION

- * Basic eye anatomy
- * rods and cones
- * the fovea
- * the blind spot
- * the visual cortex

* light/dark adaptation

* perceptual adaptation demo

- * the sense of touch
- * the somatosensory cortex

* olfactory sense

- anosmia
- pheromones

- * phantom pain
- * gate control theory

- * gustatory sense
- taste cells
- supertasters/non-tasters

THE "OTHER" SENSES

- * vestibular sense
- semi-circular canals
- * kinesthetic sense

* synesthesia

- * Sensation vs. Perception
- * bottom-up processing vs. top-down processing
- * sensory adaptation vs. habituation

INTRODUCTION TO PERCEPTION

- * context
- * perceptual set
- * schemas

- * Gestalt principles
 - closure
 - continuation
 - similarity and proximity

- * figure-ground images
- * impossible figures

ORGANIZING OUR PERCEPTIONS

- * feature analysis
- * prototype matching

- * size & shape constancy

- * reversible figures

- * color afterimages

- * illusions of apparent motion:
 - autokinetic effect
 - phi phenomenon
 - stroboscopic movement

DEPTH AND CONSTANCY

- * depth/distance cues:
 - binocular or retinal disparity
 - convergence
 - accommodation
 - linear perspective
 - relative size
 - interposition
 - elevation
 - texture gradient
 - motion parallax

ILLUSIONS AND OTHER PHENOMENA

- * The Muller-Lyer Illusion
- * The Ponzo Illusion