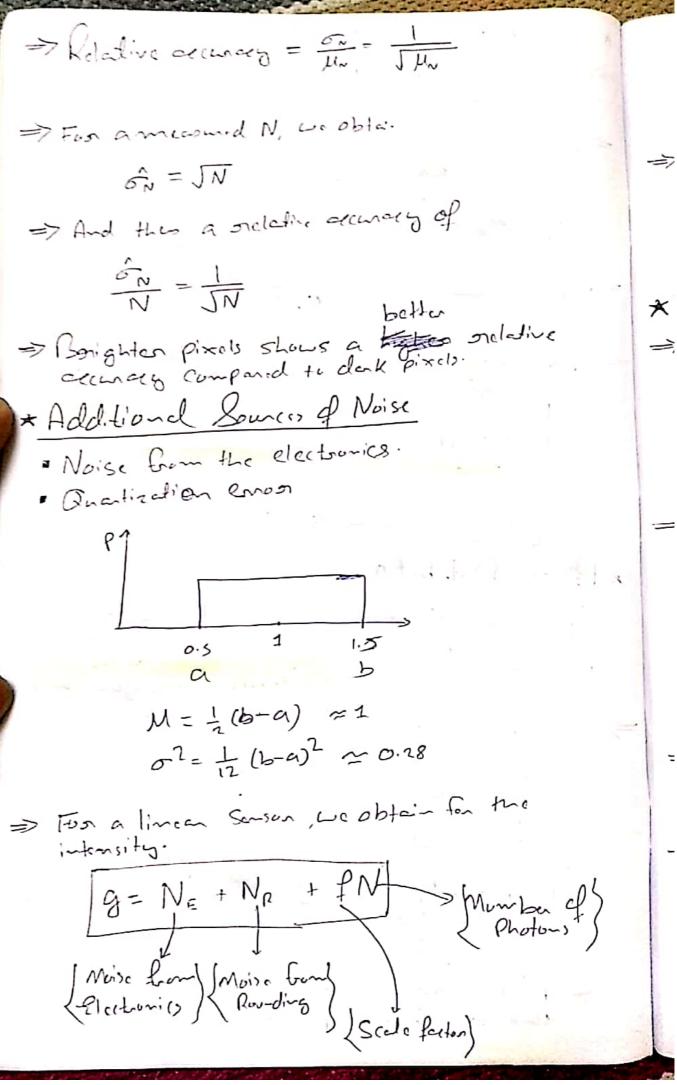
Senson and Image Model * Models => Supplications of the oreal world that are econos to handle -> Models depends on the applications. => Models always make assumptions. -> Awareness about the assumptions is * Object Model => Stoogly depends on the application. -> Object succugation La object acconstruction * Serson Model * Sampling pitch > Physical Epacing botwoon (no conta d) adjacent senson * Fill fector => Active Sensing area Soize con Braction of the theoreticals available Sensing area. number of X Intensity

* Forom Photons to Intersities => Photon flux b(x) is the average number of photors per unit area and time. => fet F be the arm of the seson cell and a(x) it elliciercy N= FAt (Q(x) b(x) dx => Digital ange => 2D structure of measured antimity values (Nodud numbers) => An image is an approximation of a Continuous function of intensities q(x,y). Lo The approximation involves discretization and quartization. g(x,5) ----> g(i,i) * Poisson Distibution Shigher is A, Similar the distribution get to gaussian => Let N= Number & Photon B = avg Mumber of incomming photons t = exposure time P(N) = IBE)Ne-BE ON2 = Bt > Allows for making Statement doct the number of photons of the sonses.



ma E(8) = PUN Variate V(g) = 6NE + 6NE + Pg => For good Cameras, Le find, 6 NE + 6 NE = 1 V(6)= 1+ P28 * Image Mudel => Four important Steps: Adod Amage a True Continuous Amage * Inc Dis Gotized amage · Read Discretized amage. => Tuo Anterprotedions afa pixel: = g(i,i) is the value that corresponds to the ana (1±1/2, 1±1/2) ag(i,i) is the measured and sounded interity Value at the location (i,i). => 3D Victor for Storing Color information.