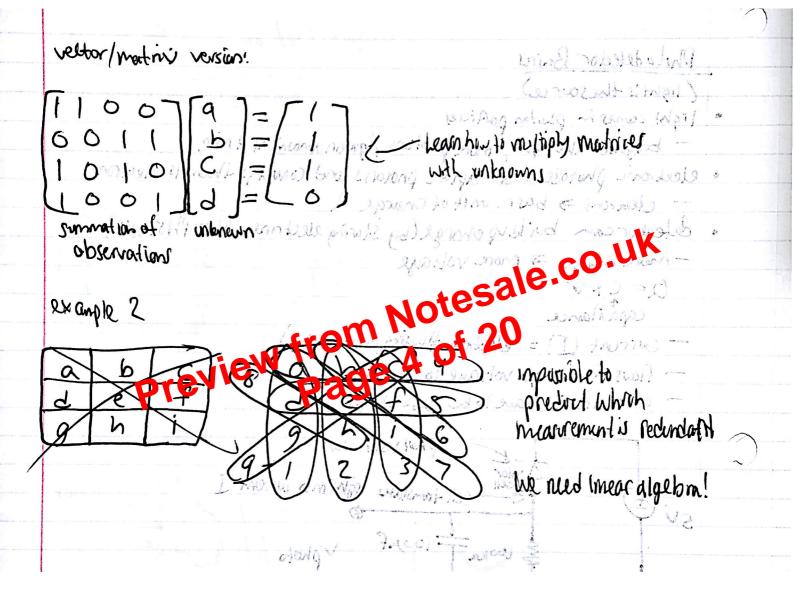
lecture 2 - Intro to I maging OTAT 20100 - 19/1/150 inst, cels. perceleg. edu/ n celloc Introduction to Imagina Anont Salvai Nedreal Imaging ex: X-ray, ct, MRI, Utrasbyndunes. 2309 Diana? DH: T Costor class in 521 Gory Imaging in general))) (subject) (((Grengy) detection SEDNUL 14 :1A In Knejad @ cece. berluering addy electronics, lots of steps OH. The Caffer class in 531 (org NO ODEVE [11] 1. moving declector, uniform light 2 pontform detector, moving light which menore action in hyperbold tesale. Colum Inght (autonsity Howener ex preview mage 2 of 20 has many we are sur Filesta Tursdamp of W Dell and due er. utrasound · sand waves travel into body and an echo squal is recorded. This elho is due to changes in material properties are really so when Imaging Lab #1 Analog to Digital (Post processing > (Anglog cirwit sensor)-Ipython



ecture: NUlspaces 140 AVH CAPUL null space is a type of input Void $\langle 0, 0 \rangle$ to find null space set operfation = (0,0> ford nullspace of SH = 0 Inthe man which a X=0 2 nullspace is all vectors · O=0 of where X=0 suchas RX, Tribade Stilly ALSONNER A G $\mathbb{E}\left(\begin{bmatrix}1 & 2\\ 0 & 0\end{bmatrix}\right) = 0$ otesa we described XA 2y=01 I she bedrich and by UN ace 8 5A07 5 4= WOMD form pol That with Rank Maline Morrin Dade # of lin independent rows I degree of nullspace = # of colomns (rank (A)) Lecture - Nullspaces; Graphs & flows, Pagerank y ant Expanded dEDID Defi: A basis for a vector space is a minimal set of vectors that span the entire . Yester space (minimal = numbers in the set is as small as passible) The dimensionality of a vector space is the number of basis vectors needed. The rank of a matrix A is the domensionality of its range (A) (full rank" is maximal rank) hopy - (- " CC list-Range (A) = span of alumn of A = where can you get to using A (combination of (A to ennulis) space to nouse matrix tell us which flows are parable (based on constructed