* EMR Source Senier components of EMP. 1 Source (1) Horosphore

& Earth: like vegetation, building etc.

1 Sensor: sensiture for diff sange of wavelongthe

Artive: distifical Source. En Micromore

Ex Surlight Passeve Natural Envice

Middle adlow it was my with by an - atmospheric wirdow: Range of wavelength 400 mm - 700 mm

Theres as not supported enough Reliation.

· Scattering

. Digital Image Brocessing

ghave alleibute seldion

C= >f

E=hcf

wavelength visible sange = (0.4-0.7) lim

. Diff wavelength gives diff. pertures of same objects

log suffection) => bright colours (absorbtion) => oberte wrage

Bright (white) - 255
Shades of gray - 2
Park (gray) - 0

In digital image robors have given some numbers.

Dook > 0 } in one of 8 bit (2 -1)

8 bit

1 200 01

In case of 16 bit: (216-1).

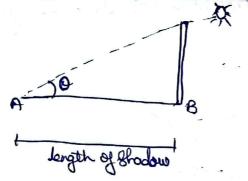
· Ewdamental. Recagnition Elements

. Helps to identify del clonents like male sack, ign sock etc.

- · Shape
- · 8170
- Shadows.
- · colour
- · Texture
- · Patter
- · Bite
- · Associations

Shadows

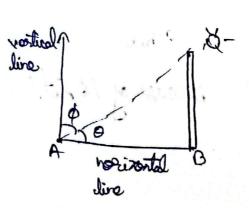
for finding sta Vartical structures



· Sobor Elevation angle ⇒ (0). Soby Zanith " Sobor Azimith"

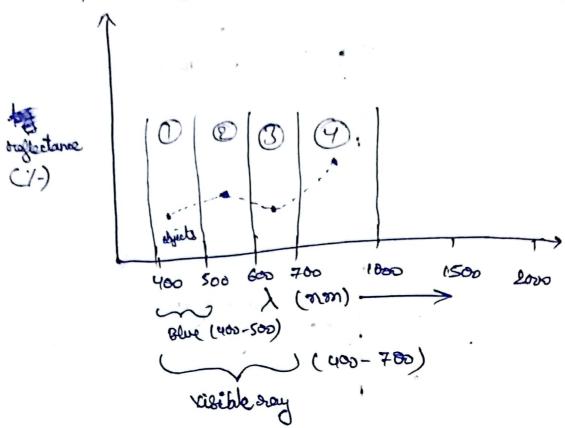
Blor zonth angle: (4)

\$+8=90°



gold oxionwith angle (low elavation angle) 169 Testure: Pagh kind of besture => spreams => Sodimentory · Ruver glow along joints (- defe in granitic train

* grectial Signature / Reflectance Lurve/ Spectral profile



- · Blue (400 500)
- · green -(500 -600)
- · Pad (000- 700)
- . Near Infrared (700-1000)
- · Short were sinfraved (> 1000)

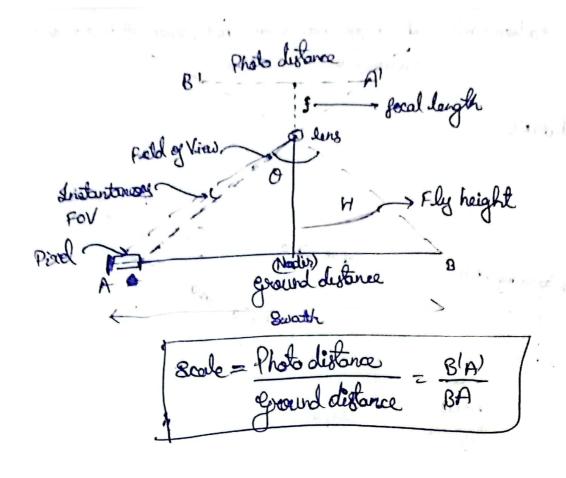
'durdest multispected scennox: Record 4 band 10 Many my (Blue -, NIR)

· Bond of wowleigth weed to highlight a picture. andividual wowelength warnet highligh whole preture, for any picture 3 good scale scapital: 123 BGB strue colour combinations contine e uniage strang faire digital number (DN) Then digital numbers converted to Rodiance: Bias DN Unid (w/on2) Electarae: Reflected energy A is proportion of oradiate · Spectrometer to oradiation stellected of all is notice of energy reflected by the surface to the

11ser displacement law more shoral evergy pook shift towards down) A= 2898 Rm.K less thousal energy ship darger). bound 141 07dork 255 > bought . Pixel Size - Spatial resolution

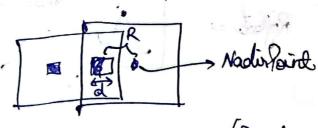
of bands are high other, store will be more . bard: enectral sosolution.

Prodiomatric. If inge has more bit, when it has more oradionatric vessition Anen Se spectrometer ordis sites Tota cable Conjutos To soduce shis sofestance is calculated. Reflectance = Reflected evergy Incident energy Disdience 2 Energy

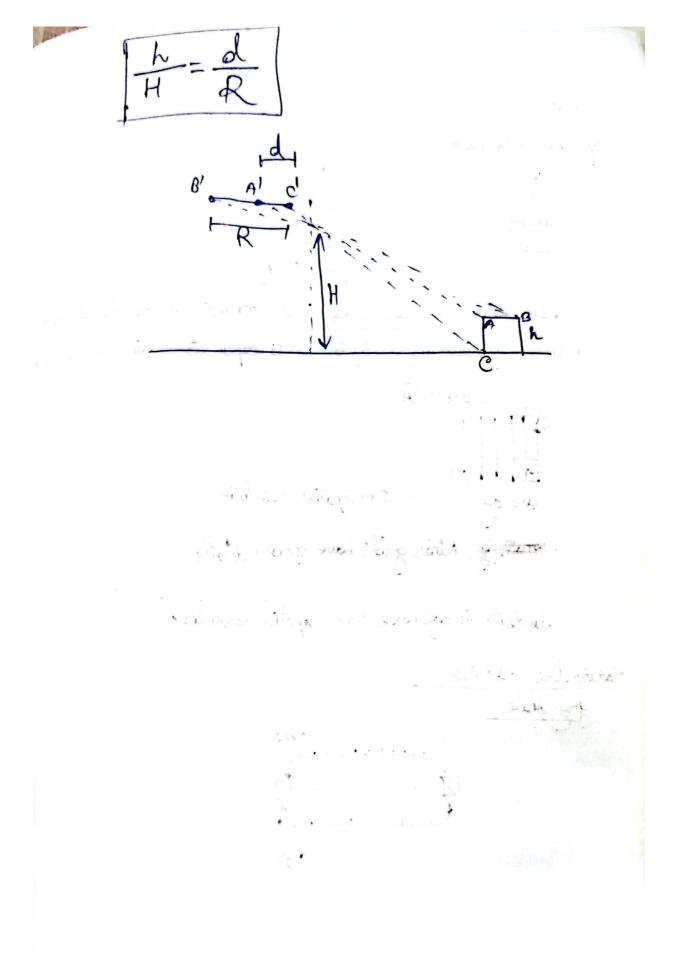


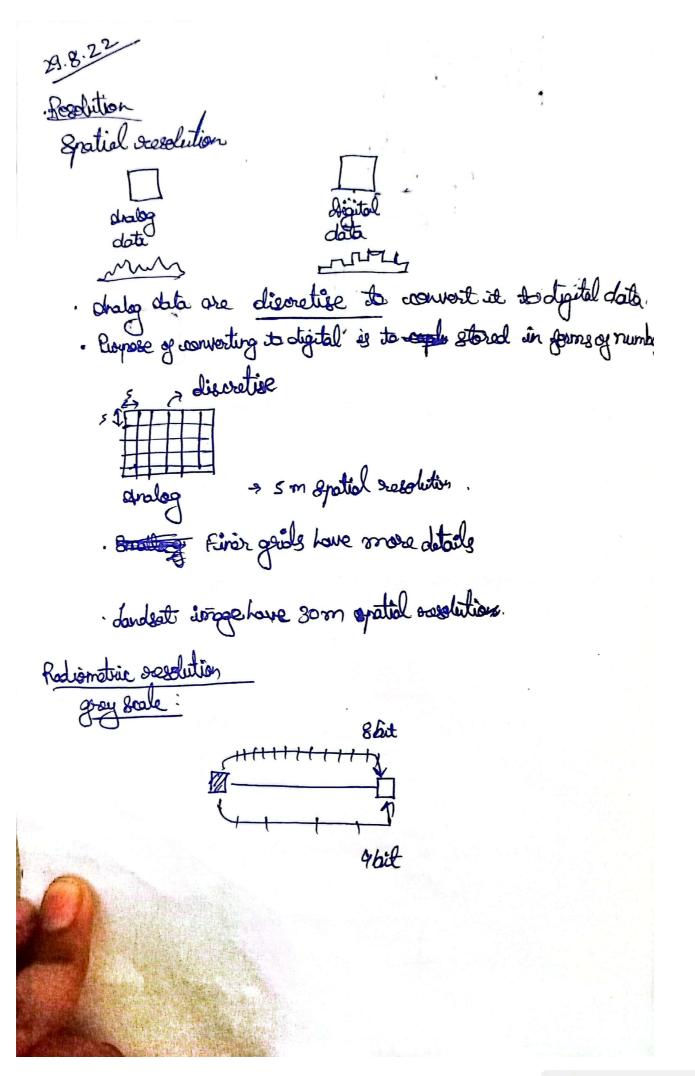
1: 1000 cm in ground distance

· for this relationship, the parrora by to look vertical.



h> height of building
H > My height.





a Cabour Cubo Red (6,0,255) (00,100,100) (0,0,0) (6000n) (055,255,0) -> wyon In 85th wrage ? Total no of colour = (28)3 # 50 54 b_3 chanel-> Selder lies tole Ruer -> (100,10,10) yellow the repares on charrel. gry

30.8.22 1000 500 Worklangth -> RGB 3 432 Natural colour composition Explanation: RGB 432

DN value for 3 is almos approx socialor

Bo 18

A at will be grey

* Comerca Lype:

Data prinate BIP

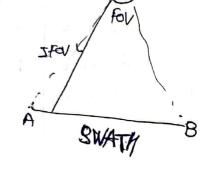
i) Which brown

BIL

6) Rush broom

B89

3 Snapshot



- · Data format
- . Pour
- . Column
- . Banda

for jush broom.

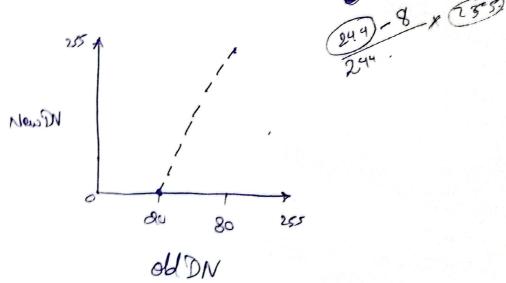
* Orbit:

i) Ascending yolar orbit



. Juge both ancernant contract structing > 8 DKnew DNnew = DNobb VI vigrues

DNmax - DNmin



susta bolies

used to constraint shoreline



6922

* Georgeoroung Pixel

also sagaire geographic Jocation

It is act of assigning boardiers to atoms of information.

* Searcherencing system:

It should be unique and should, Perseitent

@ Phrenames -> rol unique

@ Postal address > mountaing have not postal address.

Glat & log > has some dimitations. it cannot be sepreported on

Solutitude & long are concept

plane papele In place of that Easting & northing marked an paper.

BB: > best way to becale.

· 4 G.PS suguired to identify your docation.

mode method for maps. Before GP, it is used to best yourself with helpoy duramotor & topostat.

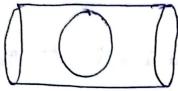
Biojections & Coordinates

World geodesic system determined stapes of earth in 384

- . Shape of small features are preserved
- · Features in high latitudes are Significantly gets enlarged (also

(1) Sonic projection

6/2 Azimuthal Ara preserved Sopre gets distortal * Universal Transvoise Mercator Projection is ideal for projection



Mozem distortions is 0.04%.

* geometric distortion

across track

Talong track

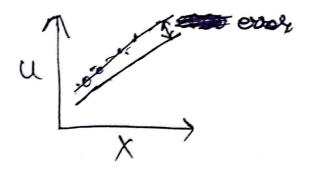
Due to movement of stellite & earth, desortion of juice laguers,

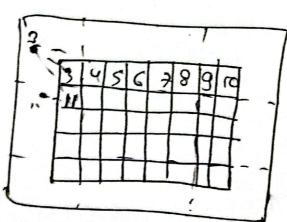
* Amage origistration
we have to identify ground control picture > shot council
change over a sine open.

(972 (2028)). (0,0) -+ (105,17) (0,0) -+ (105,17) (0,0) -+ (105,17) (0,0) -+ (105,17) (0,0

. Myping golynomial for image goviection

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	23567	52762	20	-17	





- · Newsest oreighbourhood mothod applied
- RMSE would massived & in precision of outampling Roat man Equare owar

Next treaday