

Im		Lucia Canada Can
	Intramodel	intermodel.
	used in single made	- sused in multimode
	fiber	fibu
	known as material	9 er 1erms as modal
	dispersion	dispersion
	less pulse	-smore pulse
		-s propagation of light
	wavelength of light	is the come
	13 the courte	-> mit is ns/km
	unt is ps/km	Light Land Market 2 Gers 1
	dispason: splitting of	white light rule 7 constituts.
	(1) ralance the dispress	: both in ongle maddymade fibr
	(1) chromet c	mix of intrimple fintandes
		And Inches of the sales
0	Lumpreserce	In candeser
	emisnon of light without	
	heating to high temp	
	eg. Hyorierie, phosp hore-	Jeg. Fix, candle Julls
	Scence.	and the second s
		-s involve high temp
	high energy	> how engy
		3 Heat is used
7	Heat is not und	

Photodrode: converts light enry into electrical energy (i) PN diale: counst of PN juretur that absorb light and gemate photo cumt: (11) PIN: detect light with higher wavelegts ! wide depletin ayn. -(14) Avalanche: higher voltage this PN, PIN Photodroa: short prod of time more wint flow (10) Shottley ! uses metal-senseonanter junctus Photodye Advantage: shigh suntry I fast response time -) less nors 7 wide onge somay ore -> less power consumption.

Photodeteetin in semiconductor converts optical signal into another form of signal comits optical signal juto electrical signal. Principle weren a photon with suffreient energy is obsorbed by semi conenter, it generates ehous par from value bend to condutin bud, & factors that cause rayleigh scatting -> spattery of light particles, is up in smally the upayeleristy of Vight -> 14ght is slattents by small spherical blum -> longer wavenight scatter more than shorter wavelops 3 small particle, statter light with shorter wavdeste - blue light is more scattered them sed light) seguets from non-Ideal physical properties In homogeneties Indepdent

1 Fluorescerce phosphorescure mediate light emission - Delayed light enrom I short life time I long life time

I non-sadiatine I sadienie Suritime > less sentitive I used in bislograd I wind in OLED technology. (mapy) and more record D n= 1.465 n= 1.46 · it is single mode film

Nm = 1 Vmax = 2.405 10=1210 nm = 1250×10-9 Imar= Td Jh2-h2= T(27mex) h12-h22 of the same of the same max > Vmrx. 10 2x 1/2 /2 1 1 2000 1000 2000 1000 = 2.40T.1250 x 10-9 12(3·14)·J.1.4652-1·462 3-9×10-6 m1 1 mm man 4 my = 3. d ym