



11			District to	799-10-
of other franchis		2101 (E)	9	Pegu
· Modal	dispension is almost	-1 . Model did remine in de		are b) Meta stable state: rufer to existed states of atoms
nil.	moderial diamercia	more of diamarian Materia	ant	on ions that have longer mun would lifetimes compa
is One	ansperson	1: A morning		of 1000 may rune
· · · ·		Madal dispension is domin source of dispension, Material dispersion is large,	V 10 10	to other excited states.
	used for short	· It is used for lang dictor		Role in Lasen action:
distance	Communication.	communication.		1) It is essential for achieving a population inversion
				1) It is essential few achieving a population inversion 2) To Population inversion occurs cuten more atoms.
	acri Clader	Southet - Alle		inne were in the nestestable state than in the lowe
17.0	> clada	is ( )		jons we in the netastable state than in the lower energy states.
Gustien-4				3) This condition is crucial for lover aperation, as it
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Taylet.	10 the hailoten at existentian energy leading to
201 (2) 5	in Luneau projection	Stimulated spission		allow the buildup of enitation energy, landing to
unsu) 2	wantaneous emission	Spanientally emission		stimulated emission and lasen light generation
· Emission	of a sheeten by an	· Emission of a phaton trigge	nel	
excited a	of a shatan by an	by an incident pheeton		austion-5
or tunning	- In a Dame's energe	causing an existed atom on	The same	Contyron 2
Abrete or	to a lawer energy	molecule to drop to a kouw		ail as bounds from incurrence is a condition in which more
Kyuz wi	is wan.	animal alla	(1 - 13 - N	ais a) fepilation inversion: is a conclinen in which more atoms on molecules are in higher energy states (excited states) Than in beaut energy states (green the state).
· Prochese	-1 -01-1 -1 -1 1	energy state.		atoms on mucaus wa in region mayor mayor many
· Snicorura	ent, phatans emitted	· Coherent, ceith emitted proton	§ 10-	States I Man in reaun energy wares (greater star).
have rai	solom phases and	having me same prave, direction,		
doutions		and energy as the incident phaton		from stimulated sensoion to dominate aun spantaneous
	-3.4	2		for stimulated emission to dominate our spantaneous
· Nat use	for amplifying	· Essential por laser agencian.		emission
light in	Pasons			WELL BOOK OF THE CONTRACT OF T
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		ansb, Solid state lason: use a solid material (like a
				ansb, Solid state lason: use a solid material (like a crystal on glas) as the active lover medium rection to gas an liquid.
Stimulat	ed emission is so	equined for LASFR.		age an Viania
				example, wends origin - stored lawn Auber desere.
	13		A Bill	example: neodymium-doped bason, Auby desers.
				₩ .
	footsition		1	
	£2 (metostable state	9	1	
	Ez metrostable state  Lawr autput			
offices Stimulated	To adiation less to a restrain less to a restrain less to a restrain les seus les restrains les rest	<b>9</b>		

Me Ne Lason Ruby laser · wave length: 6328 A , which · wave length: 6943 A , lie in is in the wisible spectrum ged part of the spectrum Mighly convered light high peak pouvers in short bursts. · Stable in output pour and ceiaux length. · Easy to operate and Celtrile ruby lasers are powerful feer pulsed application Me - Ne lasers are preferred for their convence, stability confinuous maie Affac n Kamp minture of he and Ne Discharge electroide