	Contents	Barrier Manager and Williams (1	3
1.0	Chapter 1.	O Glare : Responses, Stimuli and the Psychophysics	5
1.1	Overview		5
1.2	Background		6
1.3	Parameters Defining the Visual Process from Responses to Stimuli		7
1.4	Models Describing the Response – Stimulus Relationships		8
1.5	Comparison of "Discomfort Glare" Formulas		14
1.6	Visual Responses in Task Performance Assessment		16
1.7	Glare, Recognizing Cues and Avoiding those Situations		20
1.8	Driver Views	s and Visual Responses	22
1.9	Daylighting and Visual Responses, Student Responses for a Mirror		24
	Ceiling Clas	sroom and the Model Simulations	
1.10	Key Referen	ices by the Author	25
2.0	Chapter 2.	0 A Psychoneural Model of Visual Process	27
2.1	Lemma 1:	Incident Flux on a Photoreceptor: Brightness	30
		Ocular Diffraction and Aberrations. Flare	34
2.2	Lemma 2:	Photoreceptor Concentration :	35
2.3	Lemma 3:	Receptor Conductance and Optical Density:	36
2.4	Lemma 4:	Excitatory and Inhibitory Post-Synaptic Potentials	37
2.5	Lemma 5:	Nerve Fiber Characteristics:	39
2.6	Lemma 6:	Excitation, Spike and Propagation Potentials:	40
		Graded Excitation Potential, V(t):	42
		Propagation Potential, v(t) and Coupling Current, i(t):	43
		Rheobase, V _r , i _r and Spike Trigger Time, T _S :	44
		Spike Potential, v(t) and Coupling Current, i(t)	44
2.7	Lemma 7:	Spike Frequency:	46
2.8	Lemma 8:	Synaptic Summation:	48
2.9	Lemma 9:	Lateral Inhibition: Contour Sharpen, Enhancement	48
2.10	Lemma 10:	Perceptual Interpretation:	52
2.11	Lemma 11:	Motor Control: Asymmetric Area Brightness, Phototropism	56
2.12	Adaptation	Adaptation. Brightness as Difference Luminance Power 0.2	62
		Excitatory "on" Step Function.	66
		Inhibitory "off" Step Function:	67
		Intermittent "on—off" Square Wave Function:	67
		Oscillating Contour: Contour Band, Mach Band	69
2.13	Context:	Neural Lateral Inhibition Contour and Area Brightness	70
		Uniform, Full Field Stimuli	70
		Elemental Spot , Uniform Surround Field:	73
		Angled Contour:	74
		Combined Uniform Distributions:	76
2.14	Perceptual	Color: Brightness, Hue, Whiteness, Pureness	78
	Response:	Comment:	86
2.15	References 6M for Psychoneural Model 87		