Name	Input/Output Relation	Icon	MATLAB Function
Hard Limit	$a = 0 n < 0$ $a = 1 n \ge 0$		hardlim
Symmetrical Hard Limit	$a = -1 \qquad n < 0$ $a = +1 \qquad n \ge 0$	\Box	hardlims
Linear	a = n	\neq	purelin
Saturating Linear	$a = 0 n < 0$ $a = n 0 \le n \le 1$ $a = 1 n > 1$		satlin
Symmetric Saturating Linear	$a = -1 \qquad n < -1$ $a = n \qquad -1 \le n \le 1$ $a = 1 \qquad n > 1$	\neq	satlins
Log-Sigmoid	$a = \frac{1}{1 + e^{-n}}$		logsig
Hyperbolic Tangent Sigmoid	$a = \frac{e^n - e^{-n}}{e^n + e^{-n}}$	子	tansig
Positive Linear	$a = 0 n < 0$ $a = n 0 \le n$		poslin
Competitive	a = 1 neuron with max $na = 0$ all other neurons	C	compet

Table 2.1 Transfer Functions