

Symbol	NOT	AND	NAND	OR	NOR	XOR	XNOR																																																																																																
DIN neu																																																																																																							
DIN alt																																																																																																							
US-Norm																																																																																																							
Gleichung	$Q = \neg A$	$Q = A \wedge B$	$Q = \neg(A \wedge B)$	$Q = A \vee B$	$Q = \neg(A \vee B)$	$Q = A \oplus B$	$Q = \neg(A \oplus B)$																																																																																																
Tabelle	<table border="1"> <thead> <tr><th>A</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>0</td></tr> </tbody> </table>	A	Q	0	1	1	0	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> </tbody> </table>	A	B	Q	0	0	0	0	1	0	1	0	0	1	1	1	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> </tbody> </table>	A	B	Q	0	0	1	0	1	1	1	0	1	1	1	0	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> </tbody> </table>	A	B	Q	0	0	0	0	1	1	1	0	1	1	1	1	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> </tbody> </table>	A	B	Q	0	0	1	0	1	0	1	0	0	1	1	0	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> </tbody> </table>	A	B	Q	0	0	0	0	1	1	1	0	1	1	1	0	<table border="1"> <thead> <tr><th>A</th><th>B</th><th>Q</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> </tbody> </table>	A	B	Q	0	0	1	0	1	0	1	0	0	1	1	1
A	Q																																																																																																						
0	1																																																																																																						
1	0																																																																																																						
A	B	Q																																																																																																					
0	0	0																																																																																																					
0	1	0																																																																																																					
1	0	0																																																																																																					
1	1	1																																																																																																					
A	B	Q																																																																																																					
0	0	1																																																																																																					
0	1	1																																																																																																					
1	0	1																																																																																																					
1	1	0																																																																																																					
A	B	Q																																																																																																					
0	0	0																																																																																																					
0	1	1																																																																																																					
1	0	1																																																																																																					
1	1	1																																																																																																					
A	B	Q																																																																																																					
0	0	1																																																																																																					
0	1	0																																																																																																					
1	0	0																																																																																																					
1	1	0																																																																																																					
A	B	Q																																																																																																					
0	0	0																																																																																																					
0	1	1																																																																																																					
1	0	1																																																																																																					
1	1	0																																																																																																					
A	B	Q																																																																																																					
0	0	1																																																																																																					
0	1	0																																																																																																					
1	0	0																																																																																																					
1	1	1																																																																																																					

Abbildung 5.1. Schaltsymbole (A, B: Eingänge; Q: Ergebnis)

Eingang			Ausgang				
A	B	C	Q1	Q2	Q3	Q4	Q5
0	0	0	0	1	0	0	0
0	0	1	0	1	0	0	1
0	1	0	1	1	0	0	1
0	1	1	0	1	1	0	1
1	0	0	1	1	0	0	1
1	0	1	1	0	0	0	1
1	1	0	0	0	0	0	1
1	1	1	1	0	0	1	1

Abbildung 5.2. Beispiel für eine Wahrheitstabelle mit 5 Ausgängen und 3 Eingangsvariablen. Q4 und Q5 stellen die Und- bzw. die Oder-Funktion für drei Eingänge dar.