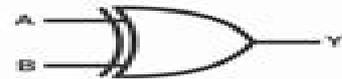


LOGIC FUNCTION	LOGIC SYMBOL	BOOLEAN EXPRESSION	TRUTH TABLE		
			INPUTS		OUTPUTS
			B	A	Y
AND		$A \cdot B = Y$	0	0	0
			0	1	0
			1	0	0
			1	1	1
			0	0	0
OR		$A + B = Y$	0	0	0
			0	1	1
			1	0	1
			1	1	1
			0	0	1
inverter		$A = \bar{A}$	0	1	
			1	0	
NAND		$\overline{A \cdot B} = Y$	0	1	1
			0	0	1
			1	1	0
			1	0	1
			0	0	1
NOR		$\overline{A + B} = Y$	0	1	0
			0	0	0
			1	1	0
			1	0	0
			0	0	0
XOR		$A \oplus B = Y$	0	1	0
			0	0	1
			1	1	1
			1	0	0
			0	0	1
XNOR		$\overline{A \oplus B} = Y$	0	1	0
			0	0	1
			1	1	1
			1	0	0
			0	0	1

**Fig 2.34 Summary of basic logic gates**

# Alsas Logic Circuits Data

**K. Ismail, Toshiaki Ikoma, Henry I.  
Smith**

## **Alsas Logic Circuits Data:**

*Noise in Physical Systems and 1/f Fluctuations* T. Musha, Shunsuke Sato, Mitsuaki Yamamoto, 1992 Presents and discusses fundamental aspects and key implications of noise and fluctuations in various fields of science technology and sociology with special emphasis in 1/f fluctuations in biology There are contributions from leading international experts Practical Digital Design Using ICs Joseph D. Greenfield, 1994 New third edition offers a start to finish approach to digital circuit design beginning with simple circuits and advancing to highly complex circuits Coverage runs from simple circuits easily constructed in the laboratory through complex circuits such as those used in memory systems computers and computer interfacing including many examples of analysis and design A solid introductory guide for electrical electronics technicians and hobbyists **Anglo-American and German abbreviations in data processing** Peter Wennrich, 1984 **Dictionary of Acronyms and Technical Abbreviations** Jakob Vlietstra, 2012-12-06 This second edition contains a collection of technical abbreviations acronyms and identifiers in short terms that are used in information and communication technologies and other related areas They have become part of the normal vocabulary in many industries institutes organizations and universities Too often they are used without mentioning what they stand for The main area covered by this dictionary is Information and Communication Technology ICT This includes computer and communication hardware and software communication networks the Internet and the World Wide Web and automatic control Other areas covered are ICT related techniques solutions products processes and activities The dictionary also contains symbolic names of organizations and institutions directly connected to the subjects listed above as well as the abbreviated names of conferences symposia workshops where the mentioned subject areas are treated In some cases the standard two letter country codes are listed between parenthesis at the end of every explained term and the country where the term originated This is a reference book that is important for all practitioners and users in the areas mentioned above Technical publications often omit the meaning of terms and confront the reader with jargon too often difficult to understand Readers can use this book as a complete reference guide without having to guess what the letters of the terms stand for This new edition contains close to 35 000 terms Approximately ten thousand new items have been added Obsolete and less relevant terms have been deleted

*Official Gazette of the United States Patent and Trademark Office*, 1990 **Papers from the 16th North American Conference on Molecular Beam Epitaxy** North American Conference on Molecular Beam Epitaxy (16, 1997, Ann Arbor, Mich.), 1998 Quantum Effect Physics, Electronics and Applications, Proceedings of the INT Workshop, Luxor, Egypt, 5-9 January 1992 K. Ismail, Toshiaki Ikoma, Henry I. Smith, 1992-10 These proceedings provide an overview of quantum effect physics electronics and applications Coverage includes research into silicon ULSIs neural networks nanofabrication transport optical properties resonant tunnelling effects and quantum effect devices Physics Briefs, 1992 **Computer & Telecommunications Acronyms** Julie E. Towell, Helen E. Sheppard, Gale Research Company, 1986 **Theory and**

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*Nanoelectronics* Mircea Dragoman, Daniela Dragoman, 2009 This revised edition provides a current unified treatment of the research technology and applications fueling the rapid growth of nanoelectronics It features numerous updates including expanded discussions on nanomaterials micro and nano cantilevers and spintronics Science Abstracts ,1995

Technical Digest ,1976 **High-Speed Semiconductor Devices** S. M. Sze, 1990-08-15 Introduces the physical principles and operational characteristics of high speed semiconductor devices Intended for use by advanced students as well as professional engineers and scientists involved in semiconductor device research it includes the most advanced and important topics in high speed semiconductor devices Initial chapters cover material properties advanced technologies and novel device building blocks and serve as the basis for understanding and analyzing devices in subsequent chapters The following chapters cover a group of closely related devices that includes MOSFETs MESFETs heterojunction FETs and permeable base transistors hot electron transistors microwave diodes and photonic devices among others Each chapter is self contained and features a summary section a discussion of future device trend and an instructional problem set *IEICE Transactions on Electronics* ,1999 The Canadian Surveyor ,1968 **Conference Proceedings** ,1998

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