



Fig. 47.7 IIL Logic NOR Gate

# Integrated Injection Logic

**B. S. Sonde**



## **Integrated Injection Logic:**

**Integrated Injection Logic** James Edwin Smith, 1980 *The Development of an Integrated Injection Logic Technology*  
Michael Jerome Barry, 1981 A High Voltage Linear Compatible Integrated Injection Logic (I2L) Structure Thomas  
Mariano Lalumia, 1980 **An evaluation of integrated injection logic** Tien Tao, Robert Pierret, 1977 Integrated injection  
logic is a relatively new integrated circuit technology which shows great promise for LSI applications Although it is slow  
compared to other bipolar logic families it has the lowest power delay product of any technology high packing density and  
simple processing in certain versions It has the capability of providing both analog and digital circuits on one chip It is  
extremely flexible in that it can be tailored to meet diverse requirements such as LED drivers and low current watch circuits  
This report includes details of processing theoretical and experimental characteristics applications and commercial activities  
Author **Computer Analysis of Integrated Injection Logic** Muhammed Ayman Shibib, 1976 Digital Systems Raj  
Kamal, 2009 **Digital Electronics** Anil K. Maini, 2007-09-27 The fundamentals and implementation of digital electronics  
are essential to understanding the design and working of consumer industrial electronics communications embedded systems  
computers security and military equipment Devices used in applications such as these are constantly decreasing in size and  
employing more complex technology It is therefore essential for engineers and students to understand the fundamentals  
implementation and application principles of digital electronics devices and integrated circuits This is so that they can use  
the most appropriate and effective technique to suit their technical need This book provides practical and comprehensive  
coverage of digital electronics bringing together information on fundamental theory operational aspects and potential  
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for senior undergraduate and graduate students of electrical electronics and computer engineering and a valuable reference  
book for professionals and researchers Integrated Injection Logic Thomas Michael Trent, 1976 **Introduction to**  
**System Design Using Integrated Circuits** B. S. Sonde, 1992 Beginning With An Introduction To Integrated Electronics The  
Book Describes The Basic Digital And Linear Ics In Detail Together With Some Applications And Building Blocks Of Digital  
Systems Principles Of System Design Using Ics Are Then Explained And A Number Of System Design Examples Using The  
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**Integrated Injection Logic Technology Development** D. E. Romeo,A. Bahraman,S. Chang,K. Schuegraf,T. Wong,NORTHROP RESEARCH AND TECHNOLOGY CENTER PALOS VERDES PENINSULA CA.,1976 This report describes the progress in a program to determine the characteristics and limitations of the bipolar integrated injection logic technology as applied to the problem of implementing low power large scale random logic arrays with low fabrication costs The activity has concentrated in four areas of integrated injection logic study and development First a device and circuit modeling task was undertaken to derive analytical expressions for integrated injection logic design parameters including transistor current gain fanout minimum propagation delay and delay power product The calculated properties of integrated injection logic logic gates fabricated on epitaxial wafers as well as uniformly doped nonepitaxial wafers are summarized Second the integrated injection logic fabrication process was re evaluated on optimizing the current gain of npn and pnp transistors The experimental approach was concentrated on the use of a two step boron diffusion process for increasing the pnp injection efficiency at no loss in npn current gain Third a test chip incorporating the two step boron diffusion process was designed to obtain experimental measurement of integrated injection logic logic gates used to implement typical random logic functions such as binary counters and serial shift registers Fourth a set of preliminary test results was summarized for devices fabricated with the same set of photomasks on epitaxial as well as nonepitaxial wafers

**Integrated Injection Logic** Mingchu Wong,1974 **The Implementation and Processing of Integrated Injection Logic (I2L) on a Linear Monolithic Silicon Integrated Circuit** Val David McOmber,1975 **Reference Data for Engineers** Mac E. Van Valkenburg,2001-09-26 This standard handbook for engineers covers the fundamentals theory and applications of radio electronics computers and communications equipment It provides information on essential need to know topics without heavy emphasis on complicated mathematics It is a must have for every engineer who requires electrical electronics and communications data Featured in this updated version is coverage on intellectual property and patents probability and design antennas power electronics rectifiers power supplies and properties of materials Useful information on units constants and conversion factors active filter design antennas integrated circuits surface acoustic wave design and digital signal processing is also included This work also offers new knowledge in the fields of satellite technology space communication microwave science telecommunication global positioning systems frequency data and radar [Load Line Analysis of Integrated Injection Logic \(I2L\)](#) R.D. Midha,1976 **Custom-Specific Integrated Circuits** Hurst,1985-03-27 In the semiconductor industry cutting basic design time of microelectronics is by far the most cost effective measure for

keeping production budgets in line Custom Specific Integrated Circuits thoroughly considers the various methods available to reduce the design time of a microelectronic circuit to fit a specialized requirement This important work explores the principles of both bipolar and MOS technologies and provides in depth coverage of the many avenues which enable system designers to incorporate specific needs into an integrated circuit form Comprehensive and up to date this reference compares and contrasts all the techniques of custom and semicustom design and fabrication including programmable arrays masterslice arrays cell libraries and full custom examines the principles of placement and routing of regular structures presents convenient chapter summaries for quick review of essential material and offers physics fundamentals for basic understanding while concentrating on practical system design Ideal for both the practicing engineer and graduate level engineering student this outstanding book gives electrical electronic design computer mechanical and control engineers as well as electrical electronic and computer science engineering students the contemporary hands on coverage needed to master Custom Specific Integrated Circuits Book jacket     *An Investigation of Integrated Injection Logic* Peter John Connor,1977     Integrated Circuit Design A. MURRAY,2013-11-11     Microelectronics, I. ,1981     Integrated Injection Logic Anil K. Jain,1980     **Electronic Circuit Design** Thomas Henry O'Dell,1988-09-15 The theme of this new textbook is the practical element of electronic circuit design Dr O Dell whilst recognising that theoretical knowledge is essential has drawn from his many years of teaching experience to produce a book which emphasises learning by doing throughout However there is more to circuit design than a good theoretical foundation coupled to design itself Where do new circuit ideas come from This is the topic of the first chapter and the discussion is maintained throughout the following eight chapters which deal with high and low frequency small signal circuits opto electronic circuits digital circuits oscillators translinear circuits and power amplifiers In each chapter one or more experimental circuits are described in detail for the reader to construct a total of thirteen project exercises in all The final chapter draws some conclusions about the fundamental problem of design in the light of the circuits that have been dealt with in the book The book is intended for use alongside a foundation text on the theoretical basis of electronic circuit design It is written not only for undergraduate students of electronic engineering but also for the far wider range of reader in the hard or soft sciences in industry or in education who have access to a simple electronics laboratory

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