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\$4.95
(In U.S.A.)

**The
TTL
Data Book**
**for
Design Engineers**

Second Edition



TEXAS INSTRUMENTS
INCORPORATED

LCC4112
74062-116-AI

Printed in U.S.A.

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THE TTL DATA BOOK

Second Edition

In this 832-page data book, Texas Instruments is pleased to present important technical information on the industry's broadest and most advanced families of TTL integrated circuits.

You'll find complete specifications on standard-technology TTL circuits (Series 54/74, Series 54H/74H, Series 54L/74L) and on TI's high-technology TTL circuits such as the Schottky-clamped[†] Series 54LS/74LS and Series 54S/74S. Information on radiation-hardened and beam-lead circuits has not been included in this book, but TI has a broad line of these devices, and information is available upon request.

The indexes are designed for ease of circuit selection with margin tabs to guide you quickly to general circuit categories, and the alphanumeric and functional indexes will let you locate specific circuit types quickly. In addition, a section showing pin assignments, package availability, and a brief description of the circuit type arranged in type-number order is included for quick reference. Whenever practical, the MSI functions are arranged in sequence by type number to further simplify the task of locating a particular function.

High-reliability TTL IC's are covered in a section devoted to the latest revision of the MACH IV Procurement Specification in accordance with MIL-M-38510, a program initiated by TI to ensure that quality and reliability are built into, not tested into, integrated circuits. Another section is devoted to JAN IC's and provides a table of recommended usage and cross-references from TI type number to 38510 slash sheet and 38510 slash sheet to TI type number.

Another handy reference for the design engineer is the section on IC sockets and interconnection panels from TI.

Although this volume offers design and specification data only for TTL integrated circuits, complete technical data for any TI semiconductor/component products are available from your nearest TI field sales office, local authorized TI distributor, or by writing direct to: Marketing Information Services, Texas Instruments Incorporated, P. O. Box 5012, MS 308, Dallas, Texas 75222.

We sincerely hope you will find the new TTL Data Book for Design Engineers a meaningful addition to your technical library.

[†]Integrated Schottky-Barrier diode-clamped transistor is patented by Texas Instruments, U.S. Patent Number 3,463,975.