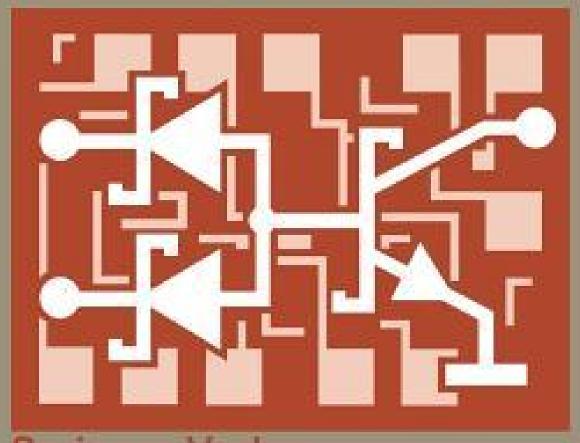
## Halbleiter-Elektronik 13

H.-M. Rein R. Ranfft Integrierte Bipolarschaltungen



Springer-Verlag

## Integrierte Bipolarschaltungen (Halbleiter Elektronik)

Hans-Martin Rein

Will guy heute ein Buch uber integrierte Schaltungen schreiben, das einen rela tiv beschrankten Umfang haben soll, so steht guy vor einer speedy unlosbaren Auf gabe. Die tiefere Ursache hierfur liegt darin, dass diese Halbleiterbausteine ei nem rapiden Entwicklungsprozess unterworfen sind und dass sich ihr Anwen dungsbereich immer weiter ausdehnt. Eine Folge davon ist, dass es bereits heute eine Fulle von Schaltungen gibt, deren Spektrum z. B. in der Digitaltechnik von einfachen Gatterbausteinen bis zu kompletten Mikrocomputern reicht. Um auch nur die wichtigsten Schaltungen behandeln zu konnen, musste guy deshalb ein umfangreiches Werk uber elektronische Schaltungstechnik schreiben, wobei Integrierte Bipolarschaltungen (Halbleiter Elektronik) noch die Gefahr besteht, dass es in wenigen Jahren veraltet ist. Ahnlich gelagert sind die Probleme auf der technologischen Seite, wo zahlreiche Verfahren (mit all ih ren Kombinationsmoglichkeiten und Varianten) bekannt sind, die zur Herstel lung integrierter Schaltungen verwendet werden. Hinzu kommt das umfang reiche Gebiet der Entwurfstechnik (System-, Schaltungs- und Strukturentwurf), die heute durch Rechneranwendung intensiv unterstutzt wird und die u. a. enjoyable dierte Kenntnisse uber Realisierungsmoglichkeiten, Modelle und Theorie inte grierter Schaltungselemente voraussetzt. Wegen der angedeuteten Problematik wurde innerhalb der Buchreihe "Halb leiter-Elektronik" das Gebiet der integrierten Schaltungen in einen Band uber integrierte MOS-Schaltungen von H. Weiss und K. Horninger und den vorliegen den Band uber integrierte Bipolarschaltungen aufgeteilt. Dennoch mussten wir uns aus den genannten Grunden weitgehend auf die Behandlung der Grundla gen beschranken, wobei allerdings auf wichtige Neuerungen nicht verzichte

## Integrierte Bipolarschaltungen Halbleiter Elektronik

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