

VLSI Technology: Fundamentals and Applications (Springer Series in Electronics and Photonics)



The origin of the development of integrated circuits up to VLSI is found in the invention of the transistor, which made it possible to achieve the action of a vacuum tube in a semiconducting solid. The structure of the transistor can be constructed by a manufacturing technique such as the introduction of a small amount of an impurity into a semiconductor and, in addition, most transistor characteristics can be improved by a reduction of dimensions. These are all important factors in the development. Actually, the microfabrication of the integrated circuit can be used for two purposes, namely to increase the integration density and to obtain an improved performance, e. g. a high speed. When one of these two aims is pursued, the result generally satisfies both. We use the English translation very large scale integration (VLSI) for Cho LSI in Japanese. In the United States of America, however, similar technology is being developed under the name very high speed integrated circuits (VHSI). This also originated from the nature of the integrated circuit which satisfies both purposes. Fortunately, the Japanese word Cho LSI has a wider meaning than VLSI, so it can be used in a broader area. However, VLSI has a larger industrial effect than VHSI.

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