

When I attended college we studied vacuum tubes in our junior year. At that time an average radio had 7 vacuum tubes and better ones even seven. Then transistors appeared in 1960s. A good radio was judged to be one with more than 20 transistors. Later good radios had 15-20 transistors and after that everyone stopped counting transistors. Today modern processors running personal computers have over 10 million transistors and more millions will be added every year. The difference between 20 and 20M is in complexity, methodology and business models. Designs with 20 transistors are easily generated by design engineers without any tools, whilst designs with 20M transistors can not be done by humans in reasonable time without the help of Prof. Dr. Gajski demonstrates the Y-chart automation. This difference in complexity introduced a paradigm shift which required sophisticated methods and tools, and introduced design automation into design practice. By the decomposition of the design process into many tasks and abstraction levels the methodology of designing chips or systems has also evolved. Similarly, the business model has changed from vertical integration, in which one company did all the tasks from product specification to manufacturing, to globally distributed, client server production in which most of the design and manufacturing tasks are outsourced.

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