

The Electronics Revolution

Philip H. Abelson and Allen L. Hammond

Earlier in the century, this country experienced a long era of sustained growth in many aspects. There was a steady increase in level of education, life expectancy, and standard of living. Growth of all kinds was welcomed, including industrial expansion and population increase. A feeling of progress, of achievement, of well-being was everywhere. As a corollary, a striving for excellence and the search for understanding were widely admired.

Today the mood of this country has turned pessimistic and negative. Those who are so inclined can find much evidence to support these views. Growth in the use of energy in the form of oil was suddenly curtailed in 1974. Growth in consumption of the kind seen in the 1950's and 1960's will not occur again. That part of the standard of living which is based on large-scale consumption of energy is not likely to improve during this century.

However, those who prefer optimism have reason for hope. Human ingenuity in solving problems is great. And native intelligence has been amplified enormously by the use of knowledge accumulated through research. An important product of research and a basis for hoping for a bright new future is the vitality of the electronics revolution. This revolution has been in progress for about 60 years. Lately its tempo has increased greatly. Until recently its importance was overshadowed by changes due to the large-scale expansion in the use of energy. But it promises to be more important, of more enduring consequence, than the earlier industrial revolution.

Some of the great changes brought about by the electronics revolution have gone comparatively unnoticed; at the start they were evolutionary rather than sudden and drastic. The telephone, which we take for granted, was invented

100 years ago. Nearly every decade since then the quality and scope of service have steadily improved, and the cost (measured in constant dollars) is now a tiny fraction of what it was 50 years ago.

Numerous applications of electronics gradually affected individuals and almost every component and activity of society. Radio was a marvelous toy and a source of wonderment when it was introduced 50 years ago. Now Americans listen to commercial radio an average of nearly 4 hours daily, and radio is accepted as practically a natural phenomenon. Television, which created a stir 25 years ago, is likewise commonplace.

During the last few years the impact of electronics on society has increased greatly. Examples are the rapid growth in popularity of citizens band radio, the worldwide use of the telephone, and the current astonishingly low prices at which hand-held calculators and electronic watches are being sold. Less evident to the individual but in total more important to society are other applications of electronics that affect nearly every sector of our economy.

This revolution, which is destined to have great long-term consequences, is quite different in nature from the industrial revolution. The industrial revolution was based on a profligate use of energy (mainly fossil fuels). Much of its technology was crude, with only a modest scientific or theoretical base. In large measure what the industrial revolution did was to make available and to employ large amounts of mechanical energy.

In contrast, the electronics revolution represents one of the greatest intellectual achievements of mankind. Its development has been the product of the most advanced science, technology, and management. In many applications electronics requires little energy. Indeed, one of

the factors that guarantees enduring impact for the electronics revolution is that it is sparing of energy and materials.

With electronics one can control the disposition of large amounts of energy and force, but much in the way the brain is used in directing the action of muscles. In some aspects, electronics can be more subtle, more nimble, more dependable than the brain. In other applications, electronics serves as a great extender of human capabilities by rapidly carrying out routine but complex calculations, thus freeing the mind to make intuitive judgments and find shortcuts to new insights.

The industrial revolution, dependent on energy and materials, will be slowed and limited by the paucity of these necessary ingredients. The electronics revolution, fueled by intellectual achievements, is destined for long-continued growth as its knowledge base inevitably increases. Obviously, the current rapid rate of evolution of electronics cannot persist indefinitely, but significant change is likely to continue for a long time.

One of the factors contributing to this dynamism is that in laboratories devoted to extending the electronics revolution the use of powerful investigative tools based on electronics is speeding new developments. Moreover, the body of knowledge that is being accumulated in the natural sciences continues to grow, and its growth has been fostered by the new tools that electronics has provided. There are few laboratories devoted to studies on the frontiers of the natural sciences that are not dependent on one or many items of electronic-based equipment. Two examples indicate the extent of the impact. A human's speed of reaction is about one-fifth of a second. Measurements can now be made in times as short as 10^{-12} second. More important is the overall effect of electronic devices on quantitative determinations of many kinds. In some instances sensitivities have been increased by orders of magnitude while the times required for measurement have been diminished to a hundredth or less of those needed in earlier methods.

Dr. Abelson is the editor of *Science*. Dr. Hammond is a member of the Research News staff.

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