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1、 In the early in industrialized countries of Europe the process of industrialization-with all the far-reaching changes in social patterns that followed-was spread over nearly a century, whereas nowadays a developing nation may undergo the same process in a decade or so.

2、 The American economic system is organized around a basically private enterprise, market-oriented economy in which consumers largely determine what shall be produced by spending their money in the marketplace for those goods and services that they want most.

3、 Pollution is caused either by man's release of completely new and often artificial substances into the environment, or by releasing greatly increased amounts of a natural substance, such as oil from oil tankers into the sea.

4、 The kinds of evidence for the roundness of the world that led finally to its general acceptance included such data as the shape of the shadow of the earth on the moon during an eclipse of the moon, the fact that as one sails from port on a ship the buildings of the port gradually seem to sink below the surface of the water, and, most convincing, the fact that it is possible to sail all around the world and return to the starting point of the voyage.

5、 Apart from the enormous outflow of funds from the oil-consuming countries, a more basic concern is the capability of the major exporters of crude oil to achieve a continuing production target roughly doubling output every ten years to meet the required

oil demand if present trend continues.⁶ Pollution and waste combine to be a problem everyone can help to solve by cutting out unnecessary buying, excess consumption and careless disposal of the products we use in our daily lives.⁷ It is now possible to add or subtract two large numbers in one to two micro seconds, and to multiply or divide them in ten to twenty microseconds, so that a computer can perform as much arithmetic in a quarter of an hour as an efficient clerk with pencil and paper might reasonably hope to achieve in a lifetime.⁸ The implications of this line of reasoning are inescapable: the movement of traffic through the streets of a town cannot be understood without taking into account the activities which take place in the buildings which line them. To get at the roots of the traffic problem we must approach it through the social and economic factors which determine the ways in which activities and buildings are arranged in our towns.⁹ As the century developed, the increasing magnitude and complexity of the problems to be solved and the growing interconnection of different disciplines made it impossible, in many cases, for the individual scientist to deal with the huge mass of new data, techniques and equipment that were required for carrying out research accurately and efficiently.¹⁰ But even today, in spite of the high standard of living which has become general in the more fortunate West, the majority of people in the world still spend nearly all their time and energy in a near-ending struggle with nature to secure the food and shelter they need.¹¹ The progress of science depends upon many concerned with the application of the working laws of pure science

to the practical affairs of life, and to increasing man's control over his environment, thus leading to the development of new techniques, processes and machines.¹² Thus we may be faced with a society having two basic groups in industrial organization: one consisting of those who understand, through their education and training, the complicated techniques necessary to control the complex industrial and organization environment that has developed. The other consisting of those who carry out the decision of this organizing group.¹³ If, on the other hand, producing more of a commodity results in reducing its cost, this will tend to increase the supply offered by seller-producers, which in turn will lower the price and permit more consumers to buy the product?¹⁴ Electricity produced by water falling over a dam is energy from the sun because the sun's heat had to raise up the water by evaporation before it could fall back to the earth as rain and run down the rivers?¹⁵ Only a small percentage of them will have the educational background adequate to cope with the effective use of these new techniques, and we have too, the general problem of a low average level of education which prevents effective communication on this subject?¹⁶ For very many years London has been a business centre with hotel accommodation mainly for visiting businessmen together with other well-to-do travellers and completely inadequate for the swarms of short-stay tourists landing at Heathrow or disembarking at Dover?¹⁷ But many questions remain unanswered regarding the effect of irrigation and drainage on the quality of ground-water, and the possibility of maintaining the ground-water level below the zone of

the plant roots while bringing to the surface the water necessary for irrigation?18、 The introduction of the brain element into manufacturing is likely to increase the productivity per man to such an extent that we can look forward to an era where there should be a plentiful supply of goods and a reduction in the hours necessary to produce them19、 He tried to discover how it was that an industrial system which created great wealth nevertheless forced nearly one-third of the population of the richest city in the world to live in a state of chronic want20? Some families would be delighted, no doubt, to have a robot slave doing all the downstairs housework after they were in bed at night, while others would prefer to have it done in the morning, but this would be entirely a matter of choice?21? In some cases, it has been found more economical to have the powerhouses located near the center of consumption and supply them with oil and gas fuel by pipe lines, than to have the powerhouses at the oil field or gas field and send the electric energy over long transmission lines22、 Moreover, demographers see the continuing shift south and west as joined by a related but newer phenomenon: More and more, Americans apparently are looking not just for places with more jobs but with fewer people, too23、 A feature of modern industrial society is the amount of time which must be spent in education in order to enable person to equip him or herself with the skills necessary for employment within the complex technological and social systems that characterise this society24、 The explosion of technology is already freeing vast numbers of people from their traditional bondage to nature, and now at last we

have it in our power to free mankind once and for all from the fear which is based on want²⁵. Money spent on advertising is money spent as well as any I know of? It serves directly to assist a rapid distribution of goods at reasonable prices, thereby establishing a firm home market and so making it possible to provide for export at competitive prices²⁶. If we were to return to the age of Newton, we should find ourselves faced with the greatest obstacles in trying to make people understand our recent scientific advances, and we should probably find ourselves accused of witchcraft if we persisted in our ideas.²⁷ Even though the same computer might have performed the same operation millions of times in succession, it must still be told exactly how to do that operation every time it repeats it.²⁸ Charles Booth tried to discover how it was that an industrial system which created great wealth nevertheless forced nearly one-third of the population of the richest city in the world to live in 'a state of chronic want'²⁹. Yet, in the West, science and technology have made it possible for us to have a plentiful supply of food, produced by only a fraction of the labour that was necessary even a few decades ago.³⁰ The whole industrial process which makes many of the goods and machines we need and use in our daily lives, is bound to create a number of waste products which upset the environmental balance, or the ecological balance as it is also known.³¹ Everything a human knows he was socially taught; everything he obtains was got through social mediation-it took the socialised contributory labour of countless thousands merely to supply the simply daily needs of any reader of these words-even to

enable him to read?32、 The great interest in exceptional children shown in public education over the past three decades indicates the strong feeling in our society that all citizens, whatever their special conditions, deserve the opportunity to fully develop their capabilities33、 There are some good arguments for a technical education given the right kind of student? Many European schools introduce the concept of professional training early on in order to make sure children are properly equipped for the professions they want to join34、 Only now have a substantial number of people become concerned about trends in the growth of the human population and the consumption of natural resources, and with this concern fears for the future are increasingly expressed35、 The universe is a large place. The Greeks were well aware of this, but not until the seventeenth century did it become possible to find out the scale upon which the Solar System is built.?36、 Nature had indeed been bountiful in providing such an allpurpose raw material, but we should never have found it so useful were it not for the ingenuity and success of the technologist in the exploitation of its latent possibilities.37、 Without government support, for example, Darwin would have not sailed around the world, or had available the collections of specimens he needed in forming his theory of evolution by natural selection。 38、 Whatever its underlying reasons, there is no doubt that much of the pollution caused could be controlled if only companies, individuals and governments would make more efforts39、 When you stand on the ground you are pushing down on it with a force equal to your weight, and at the same

time the ground must be pushing up on you with exactly the same force. Or you would fall all the way down to the center of the earth.⁴⁰ In fact, the distance of the earth from the sun varies so little that it makes hardly any difference, and the seasons—four seasons—spring, summer, autumn and winter—depend on the manner in which the earth rotates on its axis.⁴¹ The “shareholders” as such had no knowledge of the lives, thoughts or needs of the workmen employed by the company in which he held shares, and his influence on the relations of capital and labour was not good. ⁴² When a new movement in art attains a certain fashion, it is advisable to find out what its advocates are aiming at, for, however farfetched and unreasonable their principles may seem today, it is possible that in years to come they may be regarded as normal.⁴³ Not only are the movements of the earth of great importance to you, but what the earth is made of, that is, its composition, also governs what you do and provides everything which you have.⁴⁴ Industrial pollution comes from waste products of the manufacturing and service industries, and these products are difficult, or at least expensive, to dispose of, while agricultural pollution results from the accumulation of toxic chemicals derived from pesticides and fertilizers.⁴⁵ A particularly important application of the computer in simplified form is as a component in the control equipment of manufacturing processes - as the nerve centre which accumulates and analyses data recording the operating conditions and performances of the plant, and sends out instructions, when appropriate, for their modification. ⁴⁶ The use of electrical energy has developed

rapidly because, in addition to becoming prevailing means of transmitting power initially generated by steam, water, or internal combustion engine, and replacing domestic factors such as candles, lamps and hand labor, it has given rise to many new ways all its own of rendering services.⁴⁷ As a result the chemical industry has become the central industry of modern civilization, tending, because of its control over materials, to spread into, and ultimately incorporate, older industries, such as mining, smelting and building, and even through its concern with fertilizers and food processing, agriculture itself.⁴⁸ At the present time, physics has progressed farther in this direction than any other science, and, in seeking to give a brief account of the present state of the science of physics, it must be our aim, not only to state the most important observed facts but also to show the relations and interdependence of these facts.⁴⁹ Most of the drugs in current use were discovered by accident or by trial and error, and the cases in which a clear connection has been found between a drug's action in the body and its chemical and physical properties are few.⁵⁰

Fortunately, however, the increasing power and organization of the trade unions, at least in all skilled trades, enabled the workmen to meet on equal terms the managers of the companies who employed them.⁵¹ A very important world problem - in fact, I am inclined to say it is the most important of all the great world problems which face us at the present time - is the rapidly increasing pressure of population on land and on land resources?⁵² Yet wide reading is becoming increasingly important, for it is very frequently in the

fields where several branches of science overlap that the most exciting results are obtained?53、 This development - and its strong implications for us politics and economy in years ahead?has enthroned the South as Americas most densely populated region for the first time in the history of the nations head counting.54、 The idea of writing this book was a result of frequent enquiries about the possibility of publishing in the English language a book on optics written in the German language by one of us more than twenty?five years ago55、 To understand the width and depth to which science can be applied to the material and spiritual problems that confront individuals and nations requires an understanding of what science really is56、 Our need for water is constantly increasing? There is an automatic increase due to population growth,while the overall improvement of living standards,the fight against hunger through the irrigation of more land for food growing,and the creation and expansion of new industries,all foretell the need for even greater water supplies through out the world57、 This property that air has of taking up a large amount of water when cooled is the cause of our cloud and rain58、 We are utilizing both solar and geothermal energy in limited amounts in a variety of installations but the possibility for large scale implementation of these sources to alleviate our power and attendant pollution problems seems very remote indeed59、 But the subject is only a few years old and with the improvements in electronic techniques which may confidently be expected,and the rapidly increasing knowledge and understanding of the brain possessed by the medical profession,it would perhaps be

unwise to forecast undue restrictions on the nature of the ultimate achievement⁶⁰. Evaporation from the soil and transpiration from vegetation are responsible for the direct return to the atmosphere of more than half the water which falls on the land⁶¹. It was during the Second World War and the following years that a widespread understanding finally emerged of the fundamental role of science for industrial development of both civil and military applications⁶².

According to the official definition, the term plastics applies to a large and varied group of materials which consist of, or contain as an essential ingredient, a substance of high molecular weight which, while solid in the finished state, at some stage of its manufacture is soft enough to be formed into various shapes - most usually through the application either singly or together of heat and pressure⁶³. The entry not only of chemistry but to an increasing degree also of physics into chemical industry has here led to a radical break with the dirty, backward chemical industry of the early nineteenth century⁶⁴. Two of the great civilizations of ancient times emerged in the Middle East almost simultaneously in Mesopotamia, the land region lying between the Tigris and Euphrates rivers, and in Egypt, along the Nile River valley, where records show a united kingdom existing as early as 3100 B.C.⁶⁵. A third distinction (between pure science and technology) is the restriction in technology of the field of interest. Many phenomena of great scientific interest are useless to technology and are ignored by it - eclipses, for example, and earthquakes⁶⁶. The scope of the book is such that it should provide a solid foundation for those who

intend to select optics as a career and at the same time it should furnish an adequate knowledge of the subject in a comprehensible form for those who intend to specialize in other branches of physics or engineering⁶⁷. Taking man's civilized past at about seven or eight hours, we may estimate his future, that is to say, the whole period between how and when the sun grows too cold to maintain life any longer on the earth, at about one hundred thousand years⁶⁸. In very early times man must have had much valuable information regarding the physical results of various actions and processes but it was only when attempts were made to systematize and arrange this knowledge and to seek the relations between the different facts that the science of physics began⁶⁹. Whether it is cheaper to ship coal from the mine into a city and generate electric energy in the city, or to generate electric energy at a coal mine or a remote water power site and "step it up" to high voltage and transmit the energy to the city in the form of electric energy is usually a question of economy⁷⁰.

A sound made by tapping on the hull of a ship will be reflected from the sea bottom, and by measuring the time interval between the taps and the receipt of the echoes the depth of the sea at that point can be calculated? So was born the echo-sounding apparatus, now in general use in ships⁷¹. It is significant that despite the rapid advance of science since the seventeenth century, it made no impact on the problems of prediction until the advent of the computer, and it is only thanks to the powerful new computers that worthwhile prediction in human affairs has been possible at all⁷². Thus, in the American economic system it is the demand of individual consum

ers, coupled with the desire of businessmen to maximize profits and the desire of individuals to maximize their incomes, that together determine what shall be produced and how resources are used to produce it.⁷³ The progress of science depends upon many factors, and not least among these is the existence of satisfactory arrangements for the rapid exchange of new ideas and experimental results between research workers having similar interests.⁷⁴

Declaring that he was opposed to using this unusual animal husbandry technique to clone humans, he ordered that federal funds not be used for such an experiment although no one had proposed to do so? and asked on independent panel of experts chaired by Princeton President Harold Shapiro to report back to the White House in 90 days with recommendations for a national policy on human cloning.⁷⁵ Not until we have detailed studies of the present movement of traffic and have a clearer idea of how many people wish to travel, where they want to go, at what time of day and how quickly - not until then can we begin to plan a proper transport system for the future.⁷⁶ And while today it is true that people do not fight and each other in the street while, that is to say, we have got to the stage of keeping the rules and behaving properly to each other in daily life nations and countries have not learnt to do this yet, and still behave like savages.⁷⁷ The story of the discovery of what is now generally called the principle of Archimedes, namely that a solid body when immersed in a liquid loses a portion of its weight of the liquid it displaces, has many different versions, of which the following is one.⁷⁸ The development of rockets has made possible the

achievement of speeds of several thousand miles per hour, and what is more important it has brought within reach of these rockets heights far beyond those which can be reached by aeroplanes, and where there is little or no air resistance, and so it is much easier both to obtain and to maintain such speed?

79、 As the century developed, the increasing magnitude and complexity of the problems to be solved and the growing interconnection of different disciplines made it impossible, in many cases, for the individual scientist to deal with the huge mass of new data, technique and equipment that were required for carrying out research accurately and efficiently?

80、 Ecology is not even primarily about man. indeed it covers all living organisms, and although most people will undoubtedly be interested in the implications of ecology for human life and welfare, to understand the subject it is necessary to abandon an entirely man-oriented approach and to consider instead the interrelationships of all life and the environment

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