

HISTORY OF SCIENCE AND TECHNOLOGY

I. Science as an Institution: The Emergence and Character of Science - The Methods of Science— The Cumulative Tradition of Science — Science and the Means of Production – Natural Science as a Source of Ideas- Interactions of Science and Society.

II. Science in the Ancient World: Agriculture and Civilization: Civilization - The Techniques of Civilization - The Origin of Quantitative Science - The Legacy of Early Civilization - The Origins of Iron age Cultures - Early Greek Science - Rome and the Decadence of Classical Science - The Legacy of the Classical World -History of Science and Technology in Ancient India -Astronomy, Medicine and Metallurgy.

III. Science in the Age of Faith: Dogma and Science - Islamic Science - Medieval Science -The Revolutions in Science and Society - The Future of the Physical Sciences - Science and Ideas in an Age of Transition.

IV. The Birth of Modern Science: The Renaissance(1440-1540) - The New Philosophy -Science Comes of Age(1650-90) - The Character of Science in the Industrial Revolution -The Nineteenth- Century Advances of Science- The World's Need of Science.

V. Science in Colonial India: Colonial Science Policy - Science in Education - Indian response - Indian Advancement Science and Technology since 1947.

References:

Anthony H.D.,(1963) Science and its Background, Macmillan & Co.Ltd., London Arthur Eddington,(1947) New Pathways in Science, University Press, Cambridge Bernal J.D. (1969) Science in History Vol.I, Vol.II, Vol.III, Vol.IV. All India Peoples Net Work, New Delhi.

Baldwin (1986), Technology and Man, London.

Chant, Colin, John Fauvel (1980) eds., Darwin to Einstein Historical Studies on Science and Belief (New York, Longman).

Chattopadhyaya, Debiprasad (1991) History of Science and Technology in India, Firma KLM, Calcutta.

Egon Larsen,(1975), History of Inventions, Horst Erdmann Verlag Thomson Press, Faridabad.

Growther J.G. Routledge & Kegan Paul (1959), Discoveries and Inventions of the Twentieth Century, London

Hamilton, B. (1983), Technology and Progress. London.

Kuppuram & Kumudhamani, History of SOT. 1-12, Vols. O.P. Jagsi, History of Science & Technology, 1-15, Vols.

Horrabin J.F, (1959), Science for the Citizen, George Allen & Unwin Ltd., London James R. Newman(ed),(1965), The International Encyclopedia of Science, Vols 1 to 4, Thomas Nelson & Sons Ltd., Nairobi

Kalpana Rajaram (1993), Science and Technology in India, Spectrum India, New Delhi. Kumar, Deepak (1995) Science and the Raj, Oxford University Press, Delhi Lawrence M. Levin(ed), (1956) The Book of Popular Science, Vols 1 to 10, The Croler Society INC, New York

Patrick Pringle,(1956), Great Discoveries in Modern Science, George H. Harrap & Co.Ltd., London .

Philip Lenard, Stafford Hateld H., Dac Andrade E.N. (1950), Great Men of Science, G.Bell and Sons Ltd.,London.

Varghese Jeyaraj, S. (1997) History of Science and Technology, Anns Pub., Uthamapalayam. Whitehead A.N.,(1953) Science and the Modern World, University Press, Cambridge