

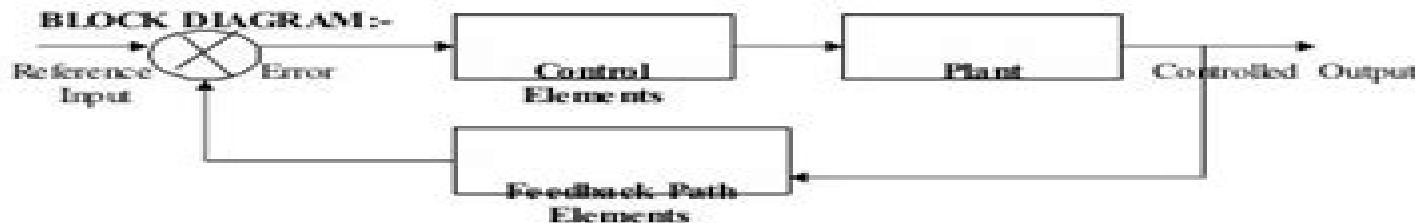
CLOSELOOP CONTROL SYSTEM:-

A close loop control system is one in which the control action is somehow dependent of the output. Close loop control systems are commonly called feedback control system. Feedback is that characteristics of close loop control system which differentiates it from open loop. It is the property of closed loop system which permits the output to be compared with the input. So that appropriate control action maybe formed as a function of input and output.

Important features of feedback are:-

1. Reduced effects of non linearities and distortion.
2. Increased accuracy.
3. Increased bandwidth.
4. Reduced sensitivity of the ratio of output to input to variations in system characteristics.
5. Tendency towards oscillation or instability.

BLOCK DIAGRAM:-



Examples of closed loop control system:-

1. A man working on a road with his eyes open is an example of closed loop control system. As eyes can distinguish between the desired walk direction and actual walk direction and make the necessary correction therefore the system is closed loop.
2. Another example of closed loop control system is an automatic toaster. In which each heating element supplies same amount of heat to both sides of the bread. And toast quality can be determined by its color. The toaster is initially calibrated for a desired toast quality which needs no re-adjustment. The toaster is automatically switched off when the sensor sees the desired color with the help of feedback linkage which may be electrical or mechanical. Since the output (color of toast) is dependent on input (temperature setting) there for the system is closed loop.

Automatic Control System Lab Manual

Juha Lindfors

Automatic Control System Lab Manual:

Advances in Control Education 1991 G.F. Franklin,M.J. Rabins,N.A. Kheir,2014-05-23 This volume is the published proceedings of selected papers from the IFAC Symposium Boston Massachusetts 24 25 June 1991 where a forum was provided for the discussion of the latest advances and techniques in the education of control and systems engineers Emerging technologies in this field neural networks fuzzy logic and symbolic computation are incorporated in the papers Containing 35 papers these proceedings provide a valuable reference source for anyone lecturing in this area with many practical applications included **Catalog of Technical Reports** United States. Dept. of Commerce. Office of Technical Services, Environmental Information Systems Directory ,1973 **Transactions** Metallurgical Society of AIME.,1969 *Environmental Information Systems Directory* United States. Environmental Protection Agency,1973 Automatic Control ,1958 U.S. Government Research Reports ,1963 *The Publishers' Trade List Annual* ,1977 **OTS Selective Bibliography** United States. Dept. of Commerce. Office of Technical Services, *Advances in Control Education 2003 (ACE 2003)* Juha Lindfors,2004-02-04 Advances in Control Education 2003 the 6th IFAC Symposium on Advances in Control Education was an international forum for scientists and practitioners involved in the field of control education to present their latest research results and ideas The symposium also aimed to disseminate knowledge and experience in alternative methods and approaches in education In addition to three plenary lectures and the technical visit the symposium included 12 regular sessions and panel discussion session on the topic web with or without Technical sessions concentrated on new software tools in control education especially on the role of interaction in Control Engineering education web based systems and remote laboratories and on laboratory experiments Presents and illustrates new approaches to the effective utilisation of new software tools in control engineering education Identifies the important role remote laboratories play in the development of control education General Catalog Georgia Institute of Technology,1983 *Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers* American Institute of Mining, Metallurgical, and Petroleum Engineers,1968 Some vols 1920 1949 contain collections of papers according to subject *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 Missiles and Rockets ,1965 Issues for Oct 1957 May 1958 include section Missile electronics v 11 no 1 7 **Government Reports Announcements & Index** ,1988 **Instruments & Control Systems** ,1982 **Robotics, CAD/CAM Market Place** , 1985 ,1985 Electric Machinery and Transformers Irving L. Kosow,1972 **U.S. Government Research & Development Reports** ,1970 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1918

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