

CHAPTER 5

B-5-1. Time constant = 0.25 min. The steady-state error is 2.5 degrees.

B-5-2. Rise time = 2.42 sec
 Peak time = 3.63 sec
 Maximum overshoot = 0.163
 Settling time = 8 sec (2% criterion)

B-5-3. The maximum overshoot of 5% corresponds to $\zeta = 0.69$. Hence

$$\omega_n = \frac{2}{\zeta} = \frac{2}{0.69} = 2.90 \text{ rad/sec}$$

B-5-4.

$$\frac{C(s)}{R(s)} = \frac{K(Ts+1)}{Js^2 + KTs + K}$$

Since $T = 3$, $K/J = 2/9$, we have

$$\frac{C(s)}{R(s)} = \frac{\frac{2}{9}(3s+1)}{s^2 + (\frac{2}{9})3s + \frac{2}{9}}$$

Hence, $2\zeta\omega_n = 6/9$ and $\omega_n^2 = 2/9$. Thus

$$\zeta = 0.707$$

B-5-5. When the mass m is set into motion by a unit-impulse force, the system equation becomes

$$m\ddot{x} + kx = \delta(t)$$

Define another impulse force to stop the motion as $A\delta(t-T)$, where A is the undetermined magnitude of the impulse force and $t = T$ is the undetermined instant that this impulse is to be given to the system. Then, the equation for the system when the two impulse forces are given is

$$m\ddot{x} + kx = \delta(t) + A\delta(t-T), \quad x(0^-) = 0, \quad \dot{x}(0^-) = 0$$

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Modern Control Technology Christopher T. Kilian, 1996 An up to date mainstream industrial electronics text often used for the last course in two year electrical engineering technology and electro mechanical technology programs Focuses on current technology digital controls use of microprocessors while including analog concepts Balances industrial electronics and non calculus controls topics Covers all major topics solid state controls electric motors sensors and programmable controllers Includes physics concepts and coverage of fuzzy logic How to Use the Allen Bradley 5 the most commonly used PLC has been included as a tutorial appendix Both Customary and SI units are used in examples **Mechanical**

Engineering News ,1986 **Modern Technology of Printing & Writing Inks (with Formulae & Processes) 2nd**

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ceramic industry has been modernizing continuously by newer innovations in product design quality etc Glass is an inorganic product typically produced by melting a mixture of silica soda and calcium compound with desired metallic oxides that serves as coloring agents Indian glass industry will increase on the sidelines of real estate growth across retail residential and office estate Glass production involves the fusion of several inorganic substances These various substances include products such as silica sand soda ash dolomite and limestone representing together 99% of all the raw materials excluding recycled glass Glass ceramics are mostly produced in two steps First a glass is formed by a glass manufacturing process The glass is cooled down and is then reheated in a second step In this heat treatment the glass partly crystallizes In most cases nucleation agents are added to the base composition of the glass ceramic These nucleation agents aid and control the crystallization process Glass ceramics are fine grained polycrystalline materials formed when glasses of suitable compositions are heat treated and thus undergo controlled crystallization to the lower energy crystalline state It is important to emphasize a number of points in this statement on glass ceramics Glass ceramics has helped the electronics industry build much smaller and highly efficient transistors leading to advances in all types of devices The book covers almost all important aspects of Glass and Ceramic Industry Properties Applications Manufacturing Processing and Photographs of Plant Machinery with Supplier s Contact Details The major contents of the book are types of glasses silicate glasses boric oxide and borate glasses phosphorus pentoxide and phosphate glasses germanium dioxide and germanate glasses titanate glasses nitrate glasses glasses based on water halide glasses modern glass working monax and pyrex glass electric welding photo electric cells glassy metals analysis of glass glass ceramics ceramics as electrical materials analysis of ceramics etc The book will be useful to the consultants technocrats research scholars libraries and existing units and new entrepreneurs who will find a good base to work further in this field TAGS applications of Ceramics Best small and cottage scale industries Boric Oxide and Borate Glasses Business guidance for glass ceramics Business Plan for a Startup Business Business start up Ceramic and glass business ceramic business ideas Ceramic forming techniques Ceramic Industry Ceramic Material Manufacturing Methods Ceramic processing Ceramics and Glass Technology Ceramics Based Profitable Projects Ceramics Based Small Scale Industries Projects ceramics business plan Ceramics Forming Processes Ceramics pottery Manufacturing Ceramics Processing Projects Ceramics Production Industry in India Chalcogenide Glasses Germanium Dioxide and Germanate Glasses Glass ceramics Business Glass ceramics Small Business Manufacturing Glass and Ceramics glass and ceramics industry Glass and Ceramics Technology Glass Based Profitable Projects Glass Based Small Scale Industries Projects Glass Ceramic Products Glass Ceramics Industry glass ceramics properties Glass Forming Processing glass forming process Glass Forming Technology Glass making Industry process Glass Manufacture and Processing Glass Manufacturing Process Glass Processing Projects Glass production Glass Production Industry in India Glass ceramic materials Glass ceramics their production properties and potential Great Opportunity for Startup Halide Glasses How to Start a Ceramic Business How to Start a

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web what are the differences between photosynthesis and cellular respiration explain the calvin cycle of photosynthesis answers photosynthesis is the process by which plants use light energy from the sun to convert carbon dioxide into glucose

molecules the process takes place in the chloroplasts of cells and is essential for plants to survive

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web sami 10 years ago a bit of an open question here but photosynthesis is the direct opposite of aerobic respiration aerobic respiration glucose oxygen carbon dioxide and water photosynthesis carbon dioxide water glucose carbohydrate oxygen

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web both photosynthesis and respiration are occurring but the rate of photosynthesis is higher than the rate of respiration therefore there is more carbon dioxide into the leaf and oxygen out

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web explain the relevance of photosynthesis to other living things describe the main structures involved in photosynthesis identify the substrates and products of photosynthesis summarize the process of photosynthesis

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web explain how the light reactions and light independent reactions calvin cycle of photosynthesis are interdependent on each other the light reactions produces atp and nadph which are then used in the calvin cycle the light reactions produces nadp and adp which are then used in the calvin cycle

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web photosynthesis is the process in which light energy is converted to chemical energy in the form of sugars in a process driven by light energy glucose molecules or other sugars are constructed from water and carbon dioxide and oxygen is released as a byproduct

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web the energy that is harnessed from photosynthesis enters the ecosystems of our planet continuously and is transferred from one organism to another therefore directly or indirectly the process of photosynthesis provides most of the energy required by living things on earth photosynthesis also results in the release of oxygen into the atmosphere

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web photosynthesis the process by which plants algae and some bacteria convert light energy to chemical energy in the form of sugars photoautotroph an organism that produces its own food using light energy like plants atp adenosine triphosphate the primary energy carrier in living things chloroplast the plant cell structure where

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web photosynthesis is one of the most important reactions on this planet let s have a look at the word photo means light synthesis means to make and that s exactly what it does so plants

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web the process of photosynthesis transformed life on earth by harnessing energy from the sun photosynthesis allowed living things to access enormous amounts of energy because of photosynthesis living things gained access to sufficient energy allowing them to evolve new structures and achieve the biodiversity that is evident today

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web virtually every spice and flavoring in the spice aisle was produced by a plant as a leaf root bark flower fruit or stem ultimately photosynthesis connects to every meal and every food a person consumes summary the process of

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web bookshelf id nbk9861 during photosynthesis energy from sunlight is harvested and used to drive the synthesis of glucose from CO_2 and H_2O by converting the energy of sunlight to a usable form of potential chemical energy photosynthesis is the ultimate source of metabolic energy for all biological systems

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web photosynthesis is a process that occurs in plants algae and some bacteria these photosynthetic organisms called autotrophs use the sun's energy to convert carbon dioxide CO_2 into organic compounds such as carbohydrates an example of carbohydrates would be simple sugars such as glucose mannose or galactose

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