w.e.f. Jan. 15, 2015

List No. 14

APPLIED SCIENCES CHARTS

PHYSICIST

SP 12	Meghnath Saha
SP 13	Galileo Galilei
SP 14	Issac Newton
SP 15	Sir C.V. Raman
SP 16	Homi Jehangir Bhabha
SP 17	J.J. Thompson
SP 18	Neils Bohr
SP 20	Archimedes
SP 23	Albert Einstein
SP 31	Ernest Rutherford
SP 40	Dr. Vikram Sarabhai
SP 41	K.S. Krishnan
SP 44	A.P.J. Abdul Kalam
SP 46	Thomas Alva Edison
SP 70	Raja Ramanna
SP 71	Stephen William Hawkins
SP 72	Rakesh Sharma
SP 73	Max Planck
SP 74	James Clark Maxwell
SP 75	Wilhelm Roentgen
SP 76	James Joule
SP 77	Johnnes Keppler
SP 78	Coppernicus
SP 79	Ptolemy
SP 80	Heike K. Onnes
SP 81	S. Chandershekar
SP 82	Satyander Nath Bose
SP 83	Benjamin Franklin
	Kalpana Chawla
	Sunita Williams

CHEMIST

SC 24	Madam Curie
SC 25	Friedrich Wohler
SC 26	John Dalton
SC 27	Gibert Newton Lewis
SC 28	Dimitri Ivanowitch Mendeleev
SC 30	Michael Faraday
SC 32	Alfred Nobel
SC 35	Dr. S.S.Bhatnagar
SC 36	Joseph Priestley
SC 37	Humphry Davy
SC 39	Venkatraman Ramakrishnan
SC 85	Robert Boyle
SC 86	J.J. Berzelius
SC 87	Henry Bacqueral
SC 88	F.A.Kekule
SC 89	Avogrado
SC 90	James Chadwick
SC 91	Robert Bunsen
SC 92	Fritz Haber
SC 93	Hermann Staudinger
SC 94	Willard Libby
SC 95	Linus Pauling
SC 96	Hans Krebs
SC 97	Stanley Miller
SC 98	John Fenn
SC 99	E.D. Jemmis

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Medium size 16"x21"
Big size 20"x26"

NOBEL PRIZE WINNERS (Ask for LIST)

FAMOUS PHYSICIST IN ONE BIG LAMINATED CHART WITH PLASTIC ROLLERS (SIZE: 30X40").

FAMOUS CHEMISTS IN ONE BIG LAMINATED CHART WITH PLASTIC ROLLERS (SIZE: 30X40").

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Lab safety Posters

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ENVIRONMENTAL SCIENCES

Size : 30x40" **Printed on Black Rexine**

ECOLOGY

CH 56	Ozone Layer
CH 57	Green House Effect
CH 58	Seasons
CH 59	Biogas Plant
CH 60	Water Cycle
CH 61	Nitrogen Cycle
CH 62	Carbon Cycle
CH 63	Oxygen Cycle
CH 64	Environmental Pollution
CH 65	Food Web
CH 66	Food Chain
CH 67	Land Pollution
CH 68	Phosphorous Cycle
CH 69	Sulphur Cycle
CH 522	Evolution of Man

SPACE

CH 1095	The Solar System
CH 1096	Solar & Lunar Eclipses
CH 1097	Galaxies

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English/ COMMUNICATION

DEN 1

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APPLIED PHYSICS CHARTS

Size : 30x40" **Printed on White Rexine**

OPTICS

CH 293 Eye & Its Deffects
CH 835 Chromatic Aberrations & their Remedies
CH 836 Optical Microscope
CH 837 Optical Telescope
CH 843 Michelson's Interferrometer
CH 850 Light Dispersion
CH 851 Light Diffraction
CH 852 Light Polarisation
CH 853 Light Interference
CH 1050 Optical Fibre- Basic Principle
CH 1051 Fibre Splicer, Coupler and Connector

MECHANICS

CH 873 Surface Tension
CH 874 Newton's Laws of Motion
CH 875 Dimensional Formulae
CH 841 Elasticity-Hooke's Law
CH 1055 Simple Pendulum & Harmonic Oscillators
CH 1056 Moment of Inertia
CH 1057 Cantilevers & Centrally Loaded Beams
CH 1058 Gallilean & Lorenz Transformations

ATOMIC & NUCLEAR PHYSICS

CH 845 Particle Accelerator-Cyclotron
CH 846a Nuclear Radiation Detectors-I
CH 846b Nuclear Radiation Detectors-II
CH 868 Atomic Reactor
CH 869 Nuclear Fission & Fusion
CH 1060 Structure of Atom
CH 1061 Nuclear Fission Reactors
CH 1062 Zeeman & Paschen-Back Effect
CH 1063 Stark & Raman Effect
CH 1064 Effects of Radiation on Humans

HEAT & THERMODYNAMICS

CH 829 Heat Transfer
CH 834 Types & Uses of Thermometers
CH 838 Davisson & Germer Experiment
CH 839 Carnot Cycle
CH 867 Inter Conversion of Energy Forms
CH 1065 Thermodynamical Processes
CH 1066 Calorimeter (Joule's Method)

MODERN PHYSICS

CH 840 Lasers-Basic Principle
CH 847 Photoelectric Effect
CH 848 Origin of X-Rays
CH 1059 Holography
CH 1070 Compton's Effect
CH 1071 Basic Laser Device and Laser Action
CH 1073 Types of Lasers
CH 1074 Michelson - Morley Experiment.

ELECTRICITY & MAGNETISM

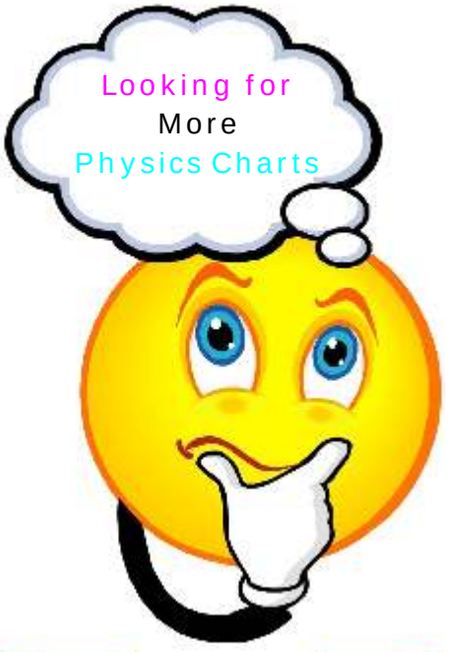
CH 859 Kirchoff's Laws
CH 1080 AC Circuits
CH 1081 Magnetic Circuits
CH 1082 Hysteresis Curve
CH 1083 Maxwell's Equations
CH 1084 Hall Effect

SOLID STATE PHYSICS

CH 872 Types of Crystal Structure
CH 1088 X-Ray Diffraction & Bragg's Law
CH 1089 Bragg's Spectrometer

ELECTRONICS

CH 857 Semi-Conductor-I
CH 858 Semi-Conductor-II
CH 861 Logic Gates
CH 860 Oscillators
CH 862 Transistor Characteristics
CH 863 Triode Characteristics
CH 864 Rectifiers
CH 865 Electronic Symbols-I
CH 866 Electronics Symbols-II
CH 1092 Solar Cell
CH 1529 Cathode Ray Oscilloscope



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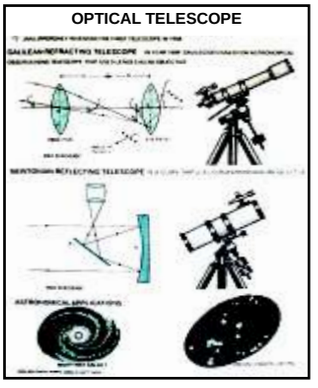
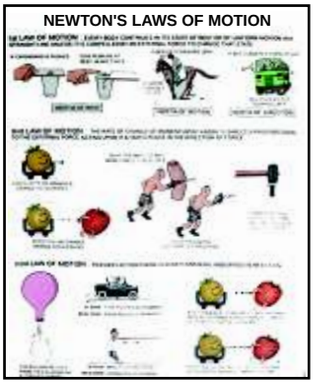
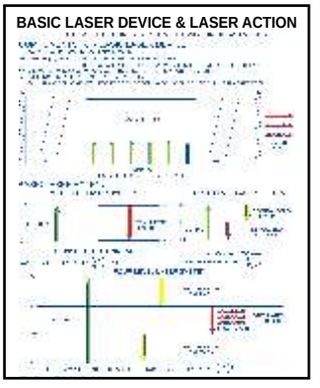


CH 837



CH 874



CH 1071

APPLIED CHEMISTRY CHARTS

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ENGG. CHEMISTRY

WATER

CH953 Boiler Problems
CH954 Softening of Water
CH955 Desalination of Water
CH962 Determination of Alkalinity of Water
CH963 Determination of Hardness by EDTA Method
CH970 Treatment of Water for Domestic Use

POLYMERS

CH960 Polymer Composites
CH966 Preparation of Urea Formaldhyde Resin
CH967 Preparation of Phenol Formaldhyde Resin

PHASE RULE

CH951 Phase Diagram of One Component Systems
CH952 Phase Diagram of Two Component Systems

QUANTITATIVE TECHNIQUES

CH961 Titrimetric Methods of analysis

LUBRICANTS

CH957 Additives for Lubricants
CH958 Physical Properties of Lubricants
CH959 Chemical Properties of Lubricants
CH964 Determination of Viscosity by Redwood Viscometer
CH965 Determination of Flash Point by Pensky Martin's Apparatus

CORROSION

CH929 Corrosion
CH956 Corrosion Control
CH971 Types of Mechanism of Corrosion
Ch972 Types of Electrochemical Corrosion

PHYSICAL

CH 878 Shapes of Atomic Orbitals
CH 907 Types of Cells
CH 909 Separation of Substances
CH 915 Liquefaction of Gases
CH 930 Lattice Defects
CH 932 Michaelis-Menten Equation
CH 938 Radioactivity

GENERAL

*CH 877A Jumbo Periodic Table (Size 48x60")
*CH 877 Periodic Tables of the Elements (White Polyart)
CH 939 First Aid in Laboratory
CH 940 Laboratory Safety Measures
CH 941 Techniques Used in Laboratory

ORGANIC

CH 934 Chromatography
CH 935 Synthetic Dyes
CH 917 Synthetic Polymers
CH 918 Natural & Synthetic Rubbers

INORGANIC

CH 894 Determination of Molecular Mass
CH 896 Extraction of Metals
CH 905 Extraction of Aluminium
CH 906 Extraction of Copper
CH 912 Oxidation & Reduction
CH 920 Extraction of Iron
CH 924 Soap Manufacturing
CH 927 Principle of Extraction
CH 936 Acids, Bases & Salts
CH 937 Electrolysis
CH 942 Chemical Bonding
CH 943 Manufacturing of Cement
CH 945 Organometallic Compounds
CH 946 Chemical Analysis of food Articles
CH 947 Manufacturing of Glass

DCM 47 Advanced Jr. Atomic Model set (47 balls+35 links) with flexible connectors & advanced balls.
DCM 48 Advanced Sr. Atomic Model set (100 balls+86 links) with flexible connectors & advanced balls.

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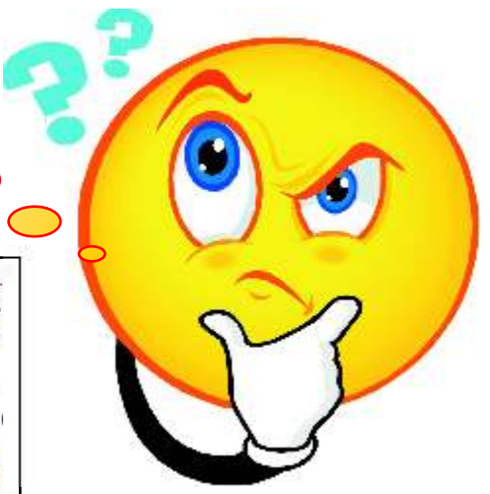

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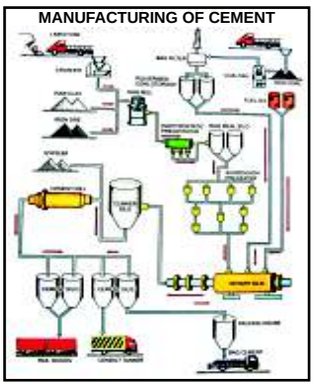

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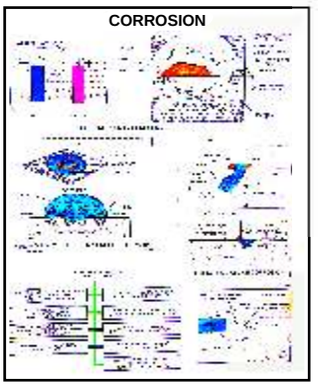

CH 929

Applied Physics Lab Apparatus

Engineering Physics Laboratory

DPA11. To study the laser beam (He-Ne Laser Beam - 2MW) characteristics like; wave length using diffraction grating aperture & divergence.
DPA12. To Study of diffraction using laser beam (Diode Laser Beam 5MW) and thus to determine the grating element with optical bench.
DPA13. To find the wavelength of sodium light by measuring the diameter of newton rings.
DPA14. To determine numerical aperture of an optical fibre.
DPA15. To determine the velocity of Ultrasound in a liquid using Spectrometer, R.P. Oscillator, Crystal tank Sodium Lamp set up.
DPA16. To investigate the intensity of light coming through two crossed Polaroids & to verify the Malus's law.
DPA17. To study B-H curve (solenoid type), using CRO.
(A) B-H curve solenoid (B) CRO 10MHz.
DPA18. To find the plateau curve of a GM tube using GM counter.
DPA19. To find out frequency of AC mains using electric vibrator.
DPA20. To verify the expression for resolving power of a telescope.

DPA 12

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Engineering CHEMISTRY Laboratory

DCA 01 Digital Balance cap. 200gm L.C. 0.01 (10 mg)
DCA 02 Pensky Martin Flash Point Apparatus
DCA 03 pH Meter (Digital) Table Patten
DCA 04 Red wood viscometer
(i) Liquids having Redwood flow 20 sec to 2000 sec.
(ii) Liquids having Redwood flow Exceeds 2000 sec.
DCA 06 Colorimeter.
DCA 07 Polarimeter Half Shade.
DCA 08 Polarimeter Bi-quartz.
DCA09 Determination of neutralization point of a week acid and weak base using conductivity meter.
DCA10 Abels flash point apparatus (Close Cup Flash).

DCA 03