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- CH 1530 555 Pin diagram & architecture
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MAGNETS & ITS PROPERTIES

MAGNETIC DOMAIN
DIRECTION OF MAGNETIZATION WITHIN DOMAINS IS RANDOM. DIRECTION OF MAGNETIZATION WITHIN DOMAIN HAS GROWN. DOMAIN NOT ALIGNED WITH MAGNETIZATION HAS SHRUNK. UNMAGNETIZED IRON. MAGNETIZED IRON IN A MAGNETIC FIELD. UNMAGNETIZED STEEL BAR. HERE THE TINY REGIONS OF MAGNETISM DOMAINS ARE RANDOMLY ORIENTED. THE ORIGINAL MAGNETIC FIELDS IS ZERO. MAGNETIZED STEEL BAR. STROKING STEEL WITH A MAGNET CAUSES THE DOMAINS TO LINE UP IN THE SAME DIRECTION. THE RESULT IS NOW A MAGNET. EVEN AFTER THE OTHER MAGNET IS TAKEN AWAY.

MAGNETIC FORCES
A MAGNET ALWAYS ATTRACTS UNMAGNETIZED OBJECTS MADE OF IRON OR STEEL, BUT TWO MAGNETS CLOSE TOGETHER CAN EITHER ATTRACT OR REPEL, DEPENDING ON WHETHER LIKE OR UNLIKE POLES ARE PLACED NEAREST TO EACH OTHER.

MAGNETIC FIELDS
ISOLATED NORTH POLE. ISOLATED SOUTH POLE. MAGNETIC FIELD LINES AROUND A BAR MAGNET.

CH 870

SIMPLE MACHINES

THE FORCE APPLIED TO A MACHINE IS EFFORT. THE FORCE MOVED BY AN EFFORT IS LOAD. MACHINES ARE USED IN MANY DIFFERENT SITUATIONS TO MAKE WORK EASIER.

LEVERS
FIRST CLASS: SEESAW. SECOND CLASS: WHEELBARROW. THIRD CLASS: BASEBALL BAT. EFFICIENCY OF A MACHINE: WORK OUTPUT / WORK INPUT x 100.

WHEEL & AXLE
GEARS. WEDGE. SPLITTING OBJECT. DOOR STOPPER.

INCLINED PLANE
RAMP. SCREW. JAR LID.

PULLEY
FIXED. MOVEABLE.

Phy 02

Red Colored Charts on White Raxine.

RELATIVE ENERGIES OF ORBITALS

ENERGY LEVEL DIAGRAM

INCREASING ENERGY

ELECTRON CONFIGURATION

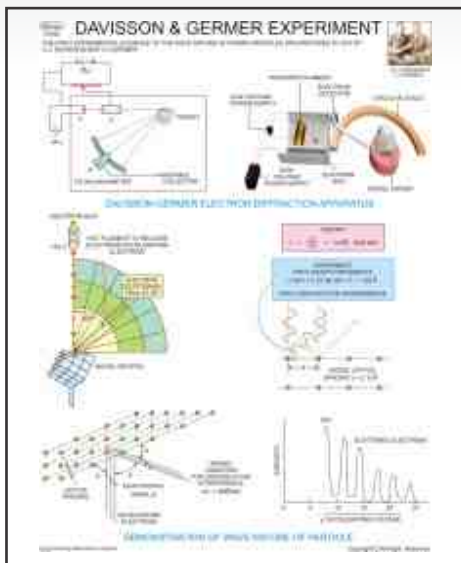
SEQUENCE OF FILLING THE ATOMIC ORBITALS

SODIUM (Na⁺)
1s²2s²2p⁶3s¹

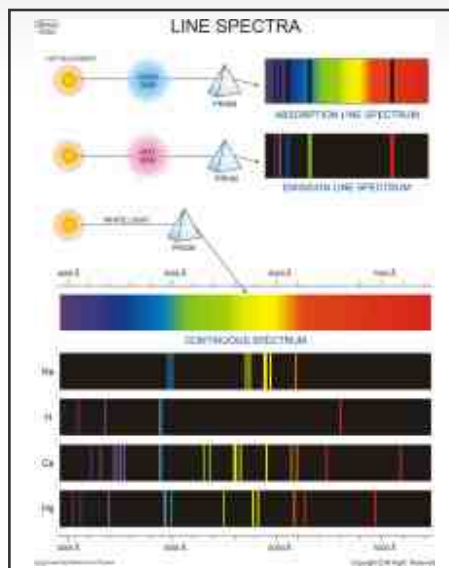
CHLORINE (Cl⁻)
1s²2s²2p⁶3s²3p⁵

CALCIUM (Ca²⁺)
1s²2s²2p⁶3s²3p⁴4s²

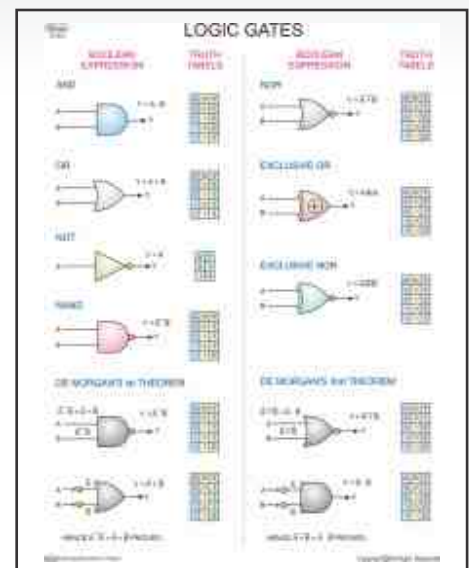
CH 879



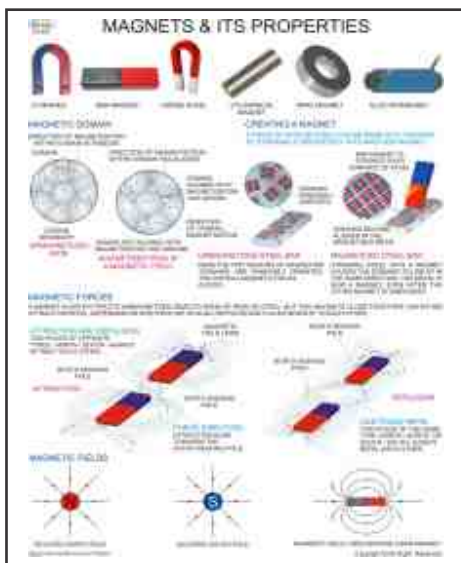
CH 838



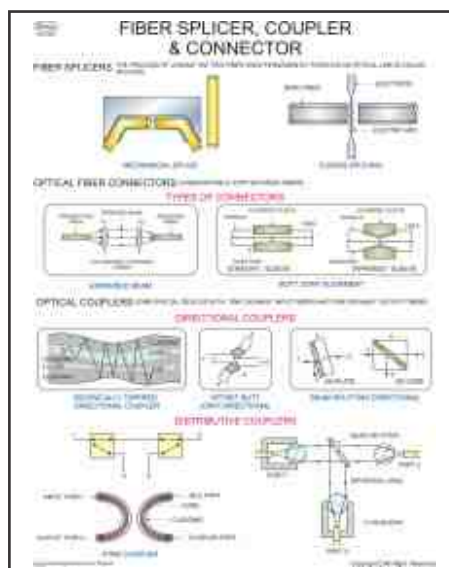
CH 854



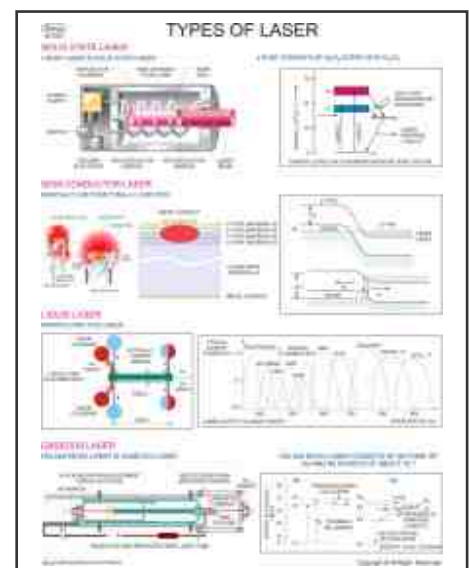
CH 861



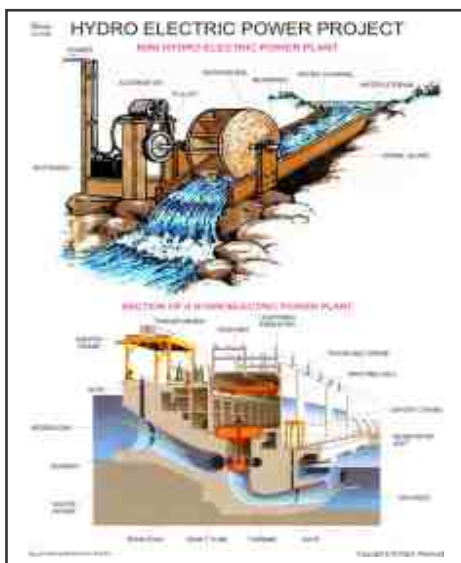
CH 870



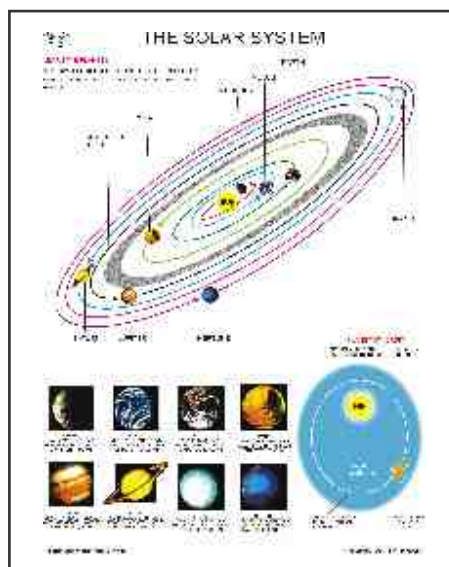
CH 1051



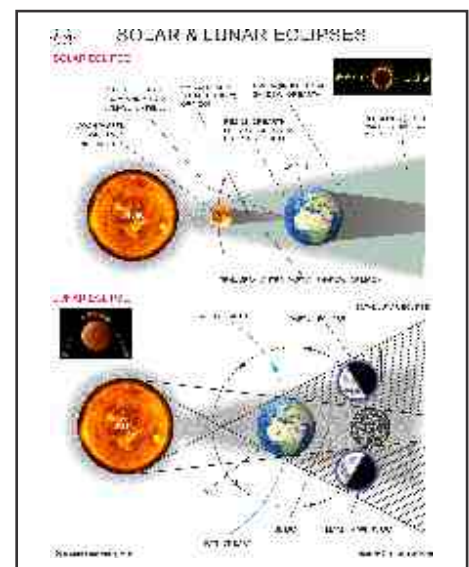
CH 1073



CH 1085



CH 1095



CH 1096

Scientists Charts

LAMINATED FRAMED ON BOARD

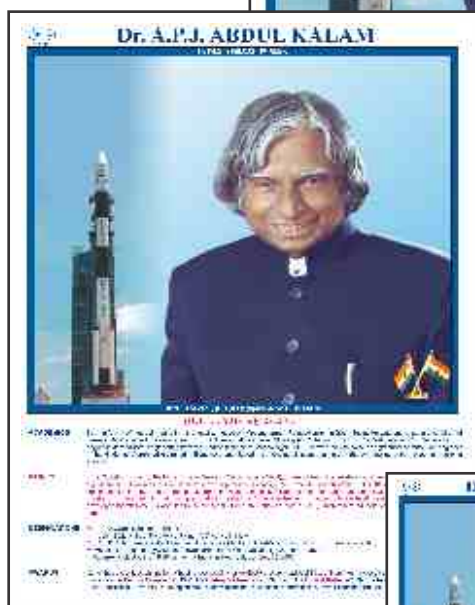
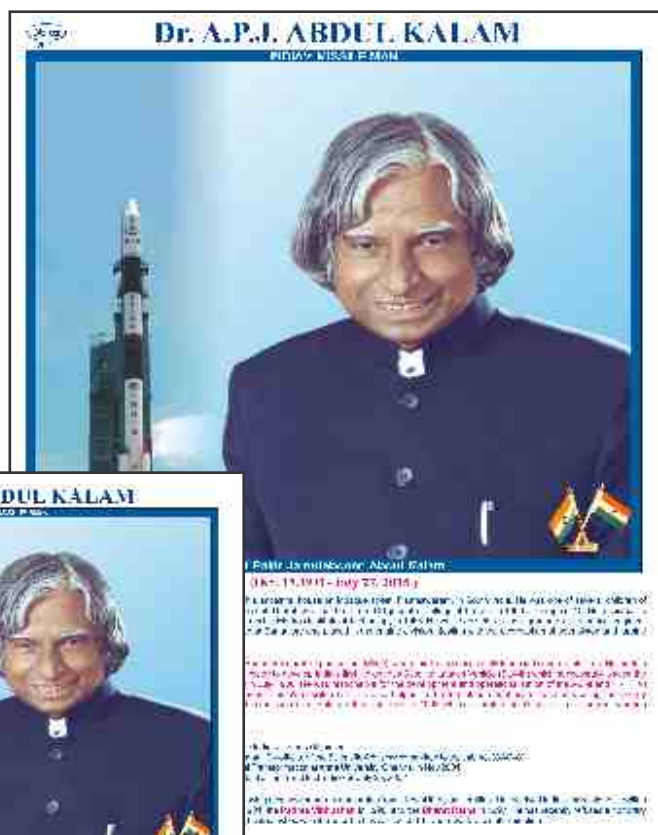
SMALL SIZE 12"X18" OR MEDIUM SIZE 20"X26"

BIG CHARTS 30"X40"
SYNTHETIC LAMINATED &
ATTACHED WITH PLASTIC ROLLERS

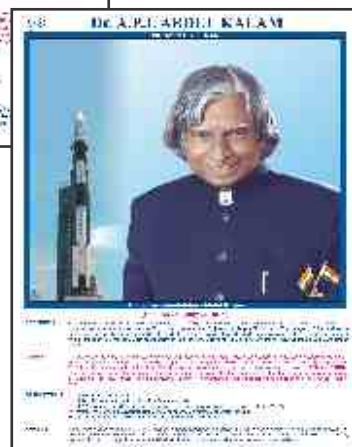
PHYSICIST

- SP 12 Maghnath 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 67 Arthur Compton
- SP 68 Louis de broglie
- SP 69 Werner Heisenberg
- 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 Kepler
- SP 78 Coppernicus
- SP 79 Ptolemy
- SP 80 Heike K. Onnes
- SP81 S. Chandershekar
- SP82 Satyander Nath Bose
- Sp83 Benjamin Franklin

30"x40"



20"x26"



12"x18"