

Dbios

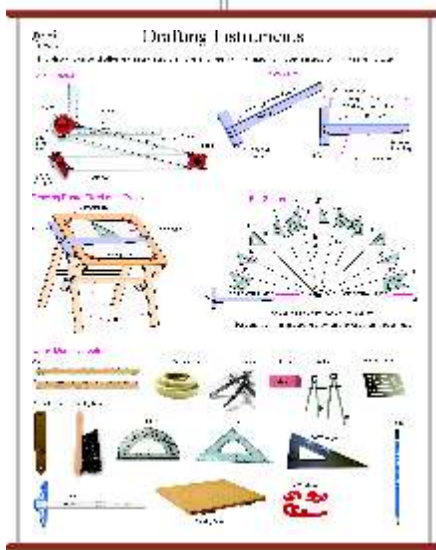
w.e.f. Jan.15, 2016

List No. 15

Civil Architecture

Charts & Models

Size: 20"X26"



Laminated and Attached with Strips



Laminated and Framed on Board

Thick Laminated both sides & attached with Plastic Strips
Thick Laminated & Framed on NU-Wood Board

Size 20"x26"

CH 2400 Civil Symbol

Building Construction Lab

CH 2407 Types of footing

CH 2408 Types of floor

CH 2409 Door & Its Types

CH 2410 Types of window

Concrete Lab

CH 2411 Shovels

CH 2412 Vicat's Apparatus

CH 2413 Slump Test

CH 2414 Fineness by Sieve analysis method

CH 2415 Rebound Hammer

CH 2416 Crushers

CH 2417 Concrete Batching Plant

CH 2418 Concrete mixing Plant Schematic

CH 2419 Types of Concrete Pump

CH 2420 Types of Foundation

CH 2421 Grillage Foundations

CH 2422a Types of Bond

CH 2422b Types of Bricks

CH 2423a Nomenclature of Stair

CH 2423b Classifications of Stairs

CH 2424 Damp Proofing

CH 2425 Reinforcement in Staircase

CH 2426 Reinforcement in Beam

CH 2427 Reinforcement in Footing

CH 2428 Reinforcement in Column

BME

CH 2405 Trenching Machines

CH 2406 Rotary Drilling

Steel Structure

CH 2429a Construction Joints

CH 2429b Welded Joints

CH 2429c Defects of Welded Joints

CH 2430 Different Types of Roof Trusses

CH 2431a Bolted joints and their classifications

CH 2431b Modes of failure & force Transmission Through bolts

Structural Analysis

CH 2433 Three point loading on a simply supported beam.

CH 2434 2 & 3 Hinged arch.

CH 2435 Reciprocal Theorem using simply supported beam.

CH 2436 Experimental analysis of critical Bukling load.

CH 2437 Typical Mohr Circles for Stresses

CH 2438a Moment Area Theorem-I

CH 2438b Moment Area Theorem-II

CH 2439 Stress-Strain Curve for Steel

CH 2441a Geometric Properties of Areas

CH 2441b Beam Deflection & Slopes

CH 2141c Fixed End Moments

CH 2442 Table of Evaluating

CH 2443 Types of Arch

CH 2444 Types of Trusses

CIVIL ENGG. Charts

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Drawing Lab

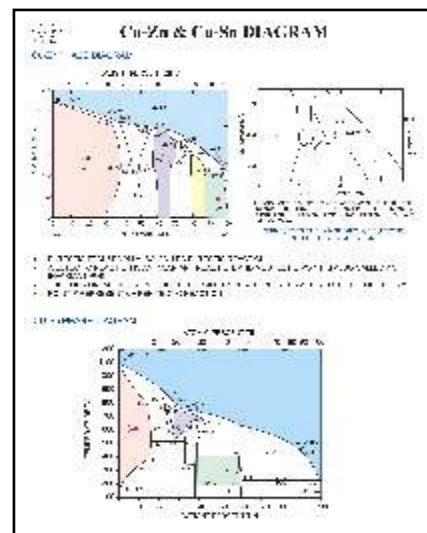
- CH 2401 1st angle and 3rd angle projections
- CH 2402 Drawing of different geometrical shapes
- CH 2403 Drafting Instruments
- CH 3101 Description, Conventions and uses of Various Lines (According to I.S.I 1972)
- CH 3102 Convention for various materials & breaks
- CH 3103 Conventional representations of common features
- CH 3104 Conventional representation of springs (According to ISI)
- CH 3105a Position of a Points-I (Vertical & Horizontal)
- CH 3105b Position of a Points-II (In Four Quadrants)
- CH 3106a Projection of straight line in different quadrants-I
- CH 3106b Projection of straight line summary of Projection of straight line-II
- CH 3107 Summary of Projections of Planes
- CH 3108 Types of Solids
- CH 3109a Section of solids-I (Classification & Term Used)
- CH 3109b Section of solids-II (Classification & Term Used)
- CH 3110 Development of surfaces (Methods of development)
- CH 3111a Parallel Line Method-I (Development of right Prism)
- CH 3111b Parallel Line Method-II (Development of right Cylinder)
- CH 3111c Parallel Line Method-III (Development of pipe)
- CH 3112 Radial Line Method (Development of right pyramid, development of right cone)
- CH 3113 Projection of planes.
- CH 3114a Orthographic Projection -I
- CH 3114b Orthographic Projection-II (Types of Pictorial Projection)
- CH 3114c Orthographic Projection-III (Comparison of first and third Angle Projections)
- CH 3115 Types of Sectional views (Full section and half section)
- CH 3116a Important sections-I (Partial or broken out section, offset section, Revolved section)
- CH 3116b Important sections-II (Thin Material in Section Spokes of Wheel in Section)
- CH 3116c Important sections-III (Web in Section, Correct and Incorrect Section for Rib, Casting of an Object with Quarter Postion Removed)

Material & Metal Iurgy

- CH 1676 Heat Treatment Processes: Annealing, Normalizing, Hardening/Quenching, Tempering, & Surface Hardening.
- CH 1677 T-T-T Diagram (Time, Temperature, Transportation)
- CH 1678 Iron - Carbon Diagram
- CH 3121 Cupola Furnace
- CH 3122 Grain Size
- CH 3123 Cu-Zn Diagram & Cu-Su Diagram
- CH 3124 Comparison of Optical & Electron Microscope
- CH 3125 Hardness Conversion Table
- CH 3126 Material Weight & Volume Chart
- CH 3127 Cooling Curve for Pure iron
- CH 3128 Iron-Iron Carbide Equilibrium Diagram
- CH 3129 Induction Hardening Coils
- CH 3130 Specific Effects of Alloying
- CH 3131 Comparative Properties of some tool steels
- CH 3132 Cu-Silicon Phase Diagram (Cu-rich)
- CH 3133 Titanium Alloys phase Diagram

SOM / Testing of Mechanical Properties

- CH 3140 Semi destructive testing - (Hardness Indentation Method)
- CH 3141a Mechanical Properties-I
- CH 3141b Mechanical Properties-II
- CH 3142a Introduction to stress - strain curve-I
- CH 3142b Introduction to stress - strain curve-II
- CH 3143 Hook's law
- CH 3144 Hardness mechanical tests
- CH 3145 Drawing of UTM (Machine & Samples)
- CH 3146 Drawing of Torsion testing machine (Machine & Samples)
- CH 3147 Drawing of Indentation process in Hardness
- CH 3148 Drawing of various scales used in hardness testing



CH 3123

CIVIL ENGG. Charts

Dbios

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Fluid Mechanics

- CH 2447 Bernoulli's Theorem
- CH 2448 Determination of Metacentric Height
- CH 2449 Calibration of Venturimeter
- CH 2450 Hydraulic Pump
- CH 2451 Head Loss due to pipe fitting
- CH 2452 Hydro Electric Plant Layout
- CH 2453 Kaplan Turbine
- CH 2454 Mechanism of Pelton Turbine
- CH 2455 Governing Mechanism of Reaction Turbine
- CH 2456 Reciprocating Pump
- CH 2457 Calibration of Notches
- CH 2458 Calibration of Orifice meter
- CH 1655 Pressure Measuring Devices:
- CH 1656 (I) Impulse Turbine (Tangential Flow):
- CH 1656 (II) Reaction Turbine (Radial & Axial Flow):
- CH 1657 (I) Fluid System: (Principles of fluid statics & kinematics) Hydraulic press, Actual Hyd. Press, Hyd. Accumulator, Differential Hyd. Accumulator.
- CH 1657 (II) Fluid System: (Principles of fluid statics & kinematics) Hydraulic Intensifier, Hydraulic Ram & Hydraulic Lift
- CH 1657 (III) Fluid System: (Principles of fluid statics & kinematics) Hyd. Crane, Hyd. Coupling, Hyd. Torque Converter
- CH 1658 Orifices & Mouthpieces:
- CH 1659 Notches & Weirs:
- CH 1660 Flow In Channels (Open): Uniform & non-uniform flow and uniform flow in open channel, specific energy and its curve, Hydraulic jump, Backwater curve and afflux & its length.
- CH 1661 Flow Through Pipes (Minor energy losses): Sudden enlargement & contraction, An obstruction, Syphon, Compound, parallel & branched pipes, power transmission through nozzle.
- CH 1662 Pumps (Centrifugal): Main parts, Different casings, pumps in parallel & series (Two stages)
- CH 1663 Pumps (Reciprocating): Main parts, Velocity & acceleration, Indicator diagrams, Air vessel fitted.
- CH 3231 Air Generation & Distribution System
- CH 3232 Various Types of Pump (Gear Pump)
- CH 3233 Types of Acting Cylinder
- CH 3234 Pneumatic Tools
- CH 3235 Directional control valve
- CH 3236 Comparison of Seat Valves, Types of Spool & Seat Valves
- CH 3237 Types of Flow Control Valve
- CH 3238 Impulse Generator
- CH 3239 Pilot Operated D.C. Valve
- CH 3240 Solenoid Operated valve

Soil Mechanics

- CH 2462 Plastic Limit
- CH 2463a Triaxial Test UU
- CH 2463b Triaxial Test CU
- CH 2463c Triaxial Test CD
- CH 2464 Hydrometer Analysis

- CH 2465 Triaxial Shear Test
- CH 2466a Coefficient of Permeability
- CH 2466b Soil Permeability
- CH 2466c Estimating Soil Permeability
- CH 2467 Direct Shear Test
- CH 2468 Standard Proctor compaction Test
- CH 2469 Shrinkage limit
- CH 2470 Liquid limit
- CH 2471 Types of Rocks and Minerals

Surveying

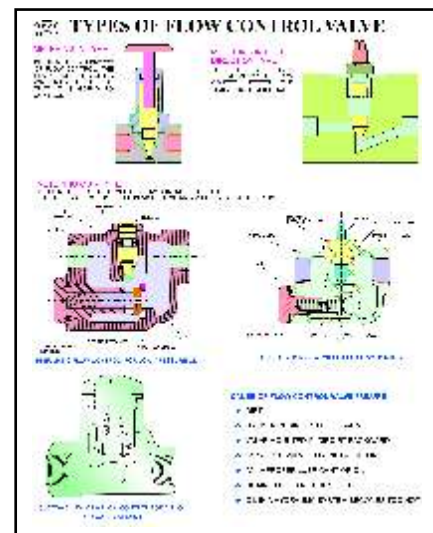
- CH 2475 Theodolite and Levelling instruments
- CH 2476 Surveying Compass
- CH 2477 Total Station instrument
- CH 2478 GPS and GIS
- CH 2479 Prismatic Compass
- CH 2480 Dumpy level
- CH 2481 Theodolite
- CH 2482 Digital Theodolite
- CH 2483 Folding Metric Levelling Staff

Water Treatment and Sanitation Lab

- CH 2490 Sedimentation Tank
- CH 2491 Slow sand filter Water
- CH 2492 Rapid sand Filter Water
- CH 2493 Water purification plant-I
- CH 2494 Water purification plant-II
- CH 2495 Water purification plant-III
- CH 2496 Sewage treatment plant-I
- CH 2497 Sewage treatment plant-II
- CH 2498 Sewage Treatment plant-III

Transportation Lab

- CH 2501 Flakiness and Elongation Test
- CH 2502 Abrasion Tests
- CH 2503 CBR Value test
- CH 2504 Tests on Bitumen



CH 3237

CIVIL ENGG. Charts



Size 20"x26"

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geology

- DG1. Galaxies
- DG 2. Stars
- DG 3. Solar System
- DG4. Sun & Moon
- DG 5. Planets
- DG 6. Pre Historic earth
- DG 7. Formation of the Himalayas
- DG 9. Minerals
- DG 10. Volcanoes
- DG 11. Formation of coal
- DG 12. Glaciers
- DG 13. Development of River
- DG 16. Earth's Coordinates and Map Projections
- DG 17. Earthquake
- DG 18. Structure of Earth
- DG 20. Vegetation and Biosphere



DG 9

Dbios Pioneers of Civil Engineering

Laminated & Framed on NU-Wood Board

Small size 12"x18" big size 20"x26

- | | |
|--------------------------------------|-----------------------------------|
| DME 19. M. Visvesvaraya | DCE 29. James Bichew Francis |
| DME 20. E. Sreedharan | DCE 30. Dr.Viktor Kaplan |
| DCE 21. Charles Augnstinde Coulomb | DCE 31. Aristotle |
| DCE 22. George Gabriel Stokes | DCE 32. John London MC Adam |
| DCE 23. John Scott Russell | DCE 33. Ajudhai Nath Khosla |
| DCE 24. Karl Von Terzaghi | DCE 41. Le Corbusier |
| DCE 25. Reelph Brazeltion Ton Peck | DCE 42. Ludwing Mies Van Der Rohe |
| DCE 26. Sir Alec Wesley Skempton | DCE 43. Frank Gehry |
| DCE 27. William John Marquon Rankine | DCE 44. Frank Lloyd Wright |
| DCE 28. Laster Allen Petton | |



DME 19

Ask for Geological Showcases
& Models on Civil / Geology