

CHAPTER 2

HASS Organization and Master Menu

HASS is organized into program modules that can be selected from the HASS Windows Menu bar by clicking the item (e.g. GRID for Grid Estimator), or in some cases, by clicking a related Toolbar icon (e.g. grid icon). After each Menu bar item is described briefly, we will review the toolbar items, followed by Windows keyboard commands. Let's first look at the Menu bar.



FILE: Creates a new file, opens and closes a file, merges one file with another, rennumbers a file, deletes or saves a file to itself or as another file, prints the contents of a file, exits HASS, and displays the last four files edited, ready for selection when no file is active.

EDIT GENERAL DATA ENTRY/EDITOR: Provides nodes first, pipes second data entry approach to creating/modifying piping arrangements. Nodes and pipes can be added, modified, or deleted individually or globally. Edit also includes typical Windows features such as undo, cut, copy, paste, clear all, delete, insert, go back and go next, along with HASS specified items to include toggle fixed/variable pressure, toggle hose stream, convert pipe to pump, convert pipe to fixed loss, convert to normal pipe, edit pump and pipe to source. Special key codes assign a line of node/pipe data to be recalled, with up to ten codes active. Similarly, macros are recorded (up to ten) to playback multiple lines of node/pipe data, further expanding data entry options.

SEARCH: Finds a specific value for a node or pipe in a selected field, can replace these values, and moves the current edit box to the source, node, or pipe area within general data entry.

GRID ESTIMATOR: Creates a gridded sprinkler system with pipe sizing based on hydraulic approximations that have historically been realistic. Generates X-Y coordinates as well as a graphics N1.85 diagram and graphics flowplot. You can EDIT the resulting system, and CALC a complete hydraulic analysis with automatic peaking to prove the remote area.

TREE GENERATOR: Generates a tree-type sprinkler system using ordinary hazard piping schedule. Generates X-Y coordinates and the report includes a graphics flowplot. You can proceed to EDIT the resulting system, and CALC a complete hydraulic analysis.

SYSTEM BUILDER: Provides pipes first, nodes second data entry approach to developing both simple and complex piping arrangements. With data entered directly onto the screen, assembly progresses from pipe segments to branch lines, then on to riser nipples and cross mains. Generates X-Y coordinates and the report includes a graphics flowplot. You can proceed to EDIT the resulting system, and CALC a complete hydraulic analysis including automatic peaking to prove the remote area (for a grid).

CALC HYDRAULIC ANALYSIS: Calculates any configuration of sprinkler and underground piping with up to three sources, five pumps and five fixed pressure loss devices with an option to calculate using velocity pressures. Supply calculations (using the total available flow and pressure) or demand calculations (with a minimum sprinkler discharge specified by flow or pressure) are provided for a variable pressure source (typical flow curve) or a fixed pressure source (constant pressure for all anticipated flows). Gridded systems may be automatically "peaked" for maximum friction loss. The process requires certain calculation criteria, the minimum end-head condition, and peaking information before calculations can begin. The Calc Wizard combines all three in a sequence ending in the report on the screen.

Hass Manual

Jianjun Gao



Hass Manual:

The National Forest Manual U.S. Forest Service, United States. Forest Service, 1911 Regulations of the Secretary of Agriculture and instructions to forest officers relating to claims settlement and administrative sites on national forest lands

ICE Manual of Geotechnical Engineering Volume 2 Hilary Skinner, D G Toll, Kelvin Higgins, Mike Brown, John Burland, 2023-11-17 ICE Manual of Geotechnical Engineering Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions Written and edited by leading specialists each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field

The National Forest Manual United States. Forest Service, 1928 *Non Destructive Concrete Testing Lab Manual* Dhruv Saxena, Puneet Gaur, Akash Gupta, Dr Tarun Gehlot, 2023-03-21 Non Destructive Testing of Concrete Structures Laboratory Manual is a comprehensive guide designed to assist students researchers and professionals in understanding and conduct non destructive testing NDT on concrete structures This practical manual provides step by step instructions and detailed explanations of various NDT techniques commonly used for evaluating the integrity and quality of concrete It covers different methods including ultrasonic testing infrared thermography rebound hammer testing impact echo testing and ground penetrating radar The book emphasizes a hands on approach with each technique accompanied by clear diagrams and photographs Readers will learn how to prepare concrete samples operate the testing equipment interpret test results and draw conclusions about the structural health of concrete elements Furthermore the laboratory manual highlights essential considerations such as safety precautions limitations of each method and factors that may affect test results It also discusses the significance of NDT in assessing durability detecting defects and guiding repair and maintenance strategies for concrete structures Non Destructive Testing on Concrete Structures Laboratory Manual serves as an invaluable resource for civil engineering students researchers in structural assessment and professionals working in the construction and infrastructure industries It equips readers with the necessary knowledge and practical skills to effectively utilize NDT techniques and make informed decisions regarding the condition of concrete structures **Airworthiness Inspector's Handbook, 8300.10 Changes 1- 5, November 1, 1998** ,1998

A Manual of medical diagnosis Andrew Whyte Barclay, 1862 INCOSE Needs and Requirements Manual Louis S. Wheatcraft, Michael J. Ryan, Tami Edner Katz, 2024-10-18 Complete and comprehensive manual for eliciting defining and managing needs and requirements integration verification and validation across the lifecycle The INCOSE Needs and Requirements Manual presents product development and systems engineering practices activities and artifacts from the perspective of needs requirements verification and validation across the system lifecycle Composed of 16 chapters this book provides practical guidance to help organizations understand the importance of lifecycle concepts needs requirements verification and validation activities enabling them to successfully and effectively implement these activities during product development systems engineering

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Handbook of chemistry Sir Frederick Augustus Abel,1854 **The JAG Journal** ,1953 **Report of the Federal Security Agency** United States. Office of Education,1889

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