

SOFTWARE

ASADS IS A PC-BASED, GENERAL-PURPOSE, THREE-DIMENSIONAL, LINEAR AND NON-LINEAR, STATIC AND DYNAMIC ANALYSIS COMPUTER CODE DEVELOPED BY I.D.E.A.S., INC.

ASADS CAPABILITIES INCLUDE:

- ❖ PRE- AND POST-PROCESSOR ENHANCEMENT FOR MARINE OFFSHORE APPLICATIONS.
- ❖ DETAILED MODELING OF MANY TYPES OF FRAMED AND PLATED STRUCTURES.
- ❖ VERSATILE LOAD-GENERATION CAPABILITIES
- ❖ A PROBLEM-ORIENTED LANGUAGE WITH INPUT SYNTAX SIMILAR TO STRUDL, BUT WITHOUT THE BURDEN OR LICENSING EXPENSE OF THE ICES SUBSYSTEM OR DATABASE.
- ❖ INPUT DATA SPECIFIED WITH A SELF-DOCUMENTING COMMAND LANGUAGE.
- ❖ "SAVE/RESTORE" CAPABILITY FACILITATES STEP-BY-STEP CHECKING FOR LARGE ANALYSES AND FOR QUALITY ASSURANCE EFFICIENCY.
- ❖ INTERFACE WITH OTHER I.D.E.A.S. SOFTWARE, AUTOCAD AND COMMERCIAL PROGRAMS.
- ❖ EASY ADAPTATION TO VARIOUS OPERATING ENVIRONMENTS, INCLUDING WORKSTATIONS.

SPECIFIC ANALYSIS CAPABILITIES

- ❖ STANDARD LINEAR STIFFNESS ANALYSIS WITH NON-LINEAR PILE-SOIL INTERACTION
- ❖ ITERATIVE STATIC PUSHOVER ANALYSIS
- ❖ DYNAMIC MODAL ANALYSIS VIA SUBSPACE ITERATION
- ❖ DYNAMIC SPECTRAL RESPONSE ANALYSIS
- ❖ DYNAMIC SPECTRAL FATIGUE ANALYSIS

CODE CHECK AND DESIGN CAPABILITIES

- ❖ API RP 2A, WORKING STRESS DESIGN
- ❖ API RP 2A, LOAD AND RESISTANCE FACTOR DESIGN
- ❖ API BULLETINS 2U AND 2V
- ❖ AISC WORKING STRESS DESIGN
- ❖ DNV, NOTE 30.1

ANALYSIS AND DESIGN PROGRAM

ASADS

**ADVANCED STRUCTURES
ANALYSIS AND DESIGN SYSTEM**

International
Design,
Engineering and
Analysis
Services, Inc.