



SeaSoft is pleased to offer to the offshore technical community a newly-developed state-of-the-art mooring analysis program called **Statmoor**. **Statmoor** can be configured to run on most micro, mini and main-frame computers under short-term, long-term or perpetual license agreements. In addition, timesharing on SeaSoft's computers will be available in late 1989.

**Statmoor** was developed by Richard J. Hartman, Ph.D. During development, special attention was given to areas in which many widely-used mooring codes are deficient. **Statmoor** incorporates an exact analytical expression for the combined elasto-gravitational static response of mooring line elements and thereby avoids altogether the problem of approximating the effects of either gravity or elasticity. Furthermore, the exact equations used apply to arbitrary degrees of non-linearity in the elasticity of elements, thereby rendering analysis of highly non-linear synthetic elements straightforward.

A special, self-teaching user interface with built-in "help" facilities allows input file preparation and modification without the frequently time-consuming and frustrating review of program manuals or documentation often necessary to comply with obscure data record formats and definitions.

Introducing...

## *Statmoor*™

A Mooring Statics Calculator

from

SeaSoft® Systems

A summary of **Statmoor** capabilities follows:

1. Up to 16 individual mooring lines can be accommodated (12 in some microcomputer versions).
2. Each mooring line may consist of up to three independent sublimes. Each subline can have specifiable mass characteristics and nonlinear elastic characteristics (tension-strain relationship may include up to cubic terms).
3. A concentrated weight and/or line support buoy can be specified between appropriate sublimes.
4. The ocean bottom may be uniformly sloping or anchor depths may be independently specified.
5. Fairlead tensions, fairlead vertical departure angles or fairlead-anchor distances may be used to define the pretension condition.
6. System and individual line characteristics (net restoring force, line tension, suspended length, etc.) are output for horizontal offsets of any magnitude in any direction and for clockwise and counter-clockwise yaw offsets.