

COMpac 1008

SPECIFICATION

SUBJECT: Buckling of flat rectangular orthotropic plates with simply-supported edges.

PURPOSE: This is an interactive program, with graphics, enabling the user to make an accurate estimate of the shear and direct loads which acting either singly or in combination cause buckling of a flat rectangular orthotropic or isotropic plate with clamped edges. Sketches are used to help define the parameters. Isometric sketches can be displayed to illustrate the wave form of the buckled plate.

BASIS: ESDU Item No. 73003 and BRUCE, J., ROBINSON, J.R. The buckling and bending of orthotropic sandwich panels in compression and shear. Unpublished work at Handley Page Ltd, 1956.

MECHANICAL DETAILS: The COMpac comprises a User's Manual and a program currently available in the following form:

1. DC-300A Data Cartridge for Tektronic 4051 (16K version with matrix algebra ROM), 4052, 4054.

AUGUST 1980

**ENGINEERING
SCIENCES
DATA UNIT**

251-259 Regent Street, London W1R 7AD Tel: 01-437 4894 Telex: 266168 Endasa G
Suite 1037, 733 15th Street NW. Washington DC20005 Tel: (202) 638 0055

