

APPENDIX 6.1

EXAMPLES OF VARIOUS COMPUTER PRINT-OUTS

Original I. B. M. Tape arrangement

The indexing information is arranged in document order, resulting in a linear file of 1,400 documents. The information transferred from the index sheet is recorded in two separate 'blocks' as follows:-

1. List of themes and the concepts which make up each theme, as given in the index sheet.
2. Lists of the concepts, giving the code letter and terms in each concept. The weight is assigned to each term in the concept, but since these weights have been transferred from those assigned to the single terms, the highest weight that any term has received will appear in all its concepts.
e.g. Concept F = Turbulent (10) Flow(9) Field(9)
Concept L = Transonic(8) Flow(9)

The tape was prepared from 80-column punched cards, with the information punched on each line as follows:-

Column 1. Punched with figure 1 or 2. This indicates whether the index information given in columns 6-80 refers to Block 1 (themes) or Block 2 (Concepts)

Columns 2-5 The four-figure document reference number.

Columns 6-80 The index information:

- If Block 1,
- a. A comma indicates the start of each theme.
 - b. The themes are identified by a two figure number, and are punched in order 01, 02, 03, etc.
 - c. The concepts which make up each theme are listed by their two-letter code.
 - d. An asterisk indicates the end of the final theme.
- If Block 2
- a. A comma indicates the start of each concept.
 - b. The concepts are identified by a two-letter code and are listed in the following sequence:- blank A to blank Z, AA, BB, CC, etc.
 - c. The terms making up each concept are punched in full
 - d. Each term is followed by the weight number, enclosed by slashes //
 - e. An asterisk indicates the end of the final concept.

```
11419,01 A B C,02 A D E F J,03 A D E G J,04 A D E H J,05 A D E I J*
21419, ASTIFFENED/10/WEB/10/PLATE/10/, BSHEAR/10/LOADING/10/, CINTERMEDIATE/9/
21419VERTICAL/9/STIFFENER/10/DESIGN/9/, DINTERMEDIATE/9/VERTICAL/9/STIFFENER/10/
21419, ESHEAR/10/BUCKLING/8/STRESS/8/, FSTIFFENER/10/FLEXURAL/8/RIGIDITY/8/
21419, GSTIFFENER/10/SPACING/8/, HSINGLE/6/SIDED/6/STIFFENER/10/, IDOUBLE/6/
21419SIDED/6/STIFFENER/10/, JTEST/7/*
11420,01 A C D E F G,02 A C D H I G,03 A C D J G,04 A C D K G,05 A C D L M
11420,06 A C D N K,07 A C D O,08 A C D P,09 A C D Q S G,10 A C D Q T G
11420,11 A C D Q U G,12 A C D R S G,13 A C D R T G,14 A C D R U G,15 B C D E F G
11420,16 B C D H I G,17 B C D J G,18 B C D K G,19 B C D L M,20 B C D N K
11420,21 B C D O,22 B C D P,23 B C D Q S G,24 B C D Q T G,25 B C D Q T G
11420,26 B C D R S G,27 B C D R T G,28 B C D R U G*
21420, ASWEPT/10/WING/10/HIGH/9/ASPECT/9/RATIO/9/, BNARROW/9/DELTA/10/WING/10/
21420, CSHARP/10/EDGED/10/, DHIGH/9/ANGLE/9/ATTACK/9/, EUPPER/9/SURFACE/9/
21420, FTURBULENT/10/FLOW/9/FIELD/9/, GWINN/9/TUNNEL/9/EXPERIMENT/9/, HROOT/8/
21420SECTION, ICONICAL/8/FLOW/9/FIELD/9/, JVORTEX/8/SHEET/8/POSITION/7/
21420, KVORTEX/8/PATH/8/LOCATION/8/, LTRANSONIC/8/FLOW/9/, MDRAG/8/RISE/8/
21420, NLEADING/8/EDGE/8/SEPARATION/8/, OVORTICITY/8/, PSTALLED/8/FLOW/8/
21420, QPRESSURE/8/DISTRIBUTION/8/, RVELOCITY/8/DISTRIBUTION/8/, SSWEEP/8/
21420ANGLE/9/, TANGLE/9/ATTACK/9/, UREYNOLDS/8/*
11421,01 A D F G H,02 B C D F G H,03 A E F G H,04 B C E F G H,05 A D I G H
11421,06 B C D I G H,07 A E I G H,08 B C E I G H,09 A D F J G H,10 B C D F J G H
11421,11 A E F J G H,12 B C E F J G H,13 A D I J G H,14 B C D I J G H
11421,15 A E I J G H,16 B C E I J G H,17 A D F Q S,18 A E F Q S,19 A D I Q S
11421,20 A E I Q S,21 A D P Q R,22 A E P Q R,23 K C D F G H,24 K C E F G H
11421,25 K C D I G H,26 K C E I G H,27 L C D F G H,28 L C E F G H,29 L C D I G H
11421,30 L C E I G H,31 M C D F G H,32 M C E F G H,33 M C D I G H,34 M C E I G H
11421,35 N C D F G H,36 N C E F G H,37 N C D I G H,38 N C E I G H,39 O C D F G H
11421,40 O C E F G H,41 O C D I G H,42 O C E I G H*
21421, ABLUNT/10/NOSED/10/LONG/9/BODYOFREVOLUTION/10/, BBLUNT/10/NODE/8/
21421, CLONG/9/CYLINDRICAL/10/AFTERBODY/10/, DHYPERSONIC/9/AIR/9/FLOW/9/
21421, EHYPERSONIC/9/HELIUM/10/FLOW/9/, FINDUCED/10/PRESSURE/9/, GTHEORETICAL/9/
```