

## ADAS Subroutine xfelem

FUNCTION XFELEM ( IZ0 )

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C-----
C
C ***** FORTRAN77 CHARACTER*12 FUNCTION: XFELEM *****
C
C PURPOSE: TO RETURN THE NAME OF THE ELEMENT WITH NUCLEAR CHARGE IZ0
C           (CHARACTER*12 FUNCTION VERSION OF 'XXELEM')
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C           (C*12) XFELEM = FUNCTION NAME -
C                       NAME OF ELEMENT WITH NUCLEAR CHARGE 'IZ0'
C           (I*4)  IZ0    = ELEMENT NUCLEAR CHARGE
C
C           (C*12) NAMES() = NAMES OF FIRST 50 ELEMENTS.
C                       ARRAY DIMENSION => NUCLEAR CHARGE
C
C NOTES:      IF NUCLEAR CHARGE IS OUT OF RANGE, I.E. NOT BETWEEN 1 & 50,
C              THEN THE CHARACTER STRING 'XFELEM' IS RETURNED BLANK.
C
C ROUTINES: NONE
C
C
C AUTHOR:     PAUL E. BRIDEN (TESSELLA SUPPORT SERVICES PLC)
C             K1/0/81
C             JET EXT. 4569
C
C DATE:       13/02/91
C
C VERSION:    1.2
C UPDATE:     17/09/99  HUGH SUMMERS - INCREASED ELEMENT NUMBER TO 92
C
C-----
C-----
C           INTEGER           IZ0
```