

## ADAS Subroutine i4eiz0

FUNCTION I4EIZ0 ( ESYM )

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C
C ***** FORTRAN77 INTEGER*4 FUNCTION: I4EIZ0 *****
C
C PURPOSE: TO RETURN THE NUCLEAR CHARGE FOR THE ELEMENT SYMBOL ESYM
C           (INTEGER*4 FUNCTION VERSION OF 'XXEIZ0')
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C           (I*4)  I4EIZ0  = FUNCTION NAME -
C                       ELEMENT NUCLEAR CHARGE
C           (C*2)  ESYM    = SYMBOL OF ELEMENT WITH NUCLEAR CHARGE I4EIZ0
C
C           (I*4)  NSYM    = PARAMETER = NUMBER OF SYMBOLS LISTED
C
C           (I*4)  I       = GENERAL ARRAY USE
C
C           (C*2)  SYMBOL()= SYMBOLS OF FIRST 'NSYM' ELEMENTS (NORMAL).
C                       ARRAY DIMENSION => NUCLEAR CHARGE
C           (C*2)  SYMBLC()= SYMBOLS OF FIRST 'NSYM' ELEMENTS (L.C.).
C                       ARRAY DIMENSION => NUCLEAR CHARGE
C           (C*2)  SYMBUC()= SYMBOLS OF FIRST 'NSYM' ELEMENTS (U.C.).
C                       ARRAY DIMENSION => NUCLEAR CHARGE
C
C NOTES:     IF SYMBOL IS NOT RECOGNISED, I.E.NOT IN Z0 RANGE 1 & 'NSYM',
C             THEN THE INTEGER 'I4EIZ0' IS RETURNED AS ZERO.
C
C ROUTINES:  NONE
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 UPDATE:
C
C VERSION 1.2:  DATE: 30/01/98
C MODIFIED: HP SUMMERS
C - ALLOWED SEQUENCE SYMBOL TO BE IN UPPER, LOWER OR MIXED
C   CASE.
C VERSION 1.3:  DATE: 37/09/99
C MODIFIED: HP SUMMERS
C - EXTENDED ELEMENT RANGE TO URANIUM.
C-----
C-----
C CHARACTER*2          ESYM
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