ADAS Subroutine c6chrg

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SUBROUTINE C6CHRG(SYMBD, IZD, SYMBR, IZR, IDZO,
                     IRZO , IRZ1 , IRZ2 , NGRND , NBOT
    &
                    )
С
C
C-----
  *********** FORTRAN77 SUBROUTINE: C6CHRG ****************
C
С
C PURPOSE: SETS UP NUCLEAR CHARGE OF DONOR AND NULEAR, INITIAL AND
          FINAL CHARGES OF RECEIVER. CHECKS VALIDITY OF RECEIVER
С
          CHARGES. ALSO SETS GROUND STATE N LEVEL AND LOWEST N LEVEL
С
С
           FOR TABULAR OUTPUTS.
С
C CALLING PROGRAM: ADAS306
С
C INPUT: (C \star 2) SYMBD = DONOR ELEMENT SYMBOL.
C INPUT: (1*4) IZD = DONOR ION CHARGE.
C INPUT: (C*2) SYMBR = RECEIVER ELEMENT SYMBOL.
C INPUT: (1*4) IZR = RECEIVER ION CHARGE.
С
C OUTPUT: (1*4) IDZO = DONOR NUCLEAR CHARGE.
C OUTPUT: (1*4) IRZO = RECEIVER NUCLEAR CHARGE.
C OUTPUT: (I*4) IRZ1
                     = RECEIVER ION INITIAL CHARGE.
  OUTPUT: (I*4) IRZ2
С
                     = RECEIVER ION FINAL CHARGE.
C OUTPUT: (1*4) NGRND = PRINCIPAL QUANTUM NUMBER OF GROUND STATE.
C OUTPUT: (1 * 4) NBOT = MINIMUM PRINCIPAL QUANTUM NUMBER.
С
C ROUTINES:
С
         ROUTINE SOURCE
                            BRIEF DESCRIPTION
С
          _____
                   ADAS
С
          I4UNIT
                              RETURNS UNIT NO. FOR OUTPUT MESSAGES
С
         CXCHRG
                   ADAS
                              RETURNS DONOR NUCLEAR CHARGE AND
С
                              RECEIVER NULEAR, INITIAL AND FINAL
С
                               CHARGES.
С
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С
        K1/0/81
        JET EXT. 5183
С
С
C DATE: 11/11/93
C UNIX-IDL PORT:
C AUTHOR: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C
C DATE: 22ND MAY 1996
C
C VERSION: 1.1
                                  DATE: 22-05-96
C MODIFIED: WILLIAM OSBORN
             - FIRST VERSION. NO CHANGES FROM IBM VERSION.
С
С
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C					
С					
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	CHARACTER*2	SYMBD,	SYMBR		
	INTEGER	IDZO,	IRZO,	IRZ1,	IRZ2
	INTEGER	IZD,	IZR,	NBOT,	NGRND