

No 5·, ĤΨ=EΨ
: Ĥ(C1 / a+C2 4b) = E(C14a+C24b)
: 0 (Ĥ-E) C142+(Ĥ-E) C142>0.
: } (Ea-E) C1+ Hab C2 = 0
Hab C+ + (Eb-E)C,=,
Eato-(Ea+Eb) & + E'-Hab = 0
$4\lambda.79$: $E^2 + E - 2 = 0 \Rightarrow E_{+} = -2eV$ $E_{-} = 1eV$
3 €+ =-2eV. 29+J2C2=0→ C3=-12G
: $Y_{+} = \int \frac{1}{3} \psi_{A} - \int \frac{2}{3} \psi_{B}$
ま d-= 1eV - G+ /2 C120
: 4_ = \(\frac{7}{3} \frac{1}{4} + \) \(\frac{1}{3} \frac{1}{8} \).
J. Pf: (EA-E) @ . HAB = E2-(EA+EB)E+EAEB- HAB 2=0
$\frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} + 1$
$\frac{\mathcal{E}_{b}-\mathcal{E}_{A}+\Delta}{2}q+H_{AB}C_{2}=0$
Cz = + EB-EA+ (EB-EA)+ 41HAA) C
(C1): 4(HAR) + (DE) + 4(HAR) (DE) + 2 DE. (DE) + 4 HAR) = 2 4(HAR) 2
> [4]. 124.



3. 1-1-8 -1 -1
-1/320 -1 $-1-8$ -1 = 0
3-1-6
0 (2)
: (-1-2) ³ -1-1+3(E+1)
= - \(\epsilon^3 - 3\epsilon^2 - 3\epsilon - 3 + 3\epsilon + 3\epsi
$= -e^3 - 3e^3 = 0 \implies e_1 = -3$, $e_2 = 0$. $e_3 = 0$
(1) E1=3.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
19-c2=0 f=-+++c (+12-16)
ii , $E_2 = 0$ $G + C_2 + C_3 = 0$ $G = -C_2 - C_3$
$\Psi_{\lambda} = \int_{1}^{\infty} \varphi_{\alpha} - \int_{2}^{\infty} \psi_{b}$
43 = 13 4c