V 25 2/P/ 43 4p 4d 4f for transition metals -Fe (26): 13 25 26 35 36 35 45 36 boxest to highest in (n=1->4) 15 25 26 35 36 36 (45) > not centralisting

S = [21+8×1+8×1] + [5×0.35] > not centralisting

S = [8+1.75] => S = 19.76 1. Find Zepp for 3d e inte 2) S= 18+1.75 => S=19.75 Zeff = 26-19.75 = 6.25 V 23 2p 35 36 38 45 4p 4d 41 Find Zepp for a 5s é in Sr Sr(38):- (52252 2635 36 45 3d" 46 552 $S = \begin{bmatrix} 15^2 & 25^2 & 2p^6 & 35^2 & 3p^6 & 3p^6 & 55^2 \\ S = \begin{bmatrix} 2+8+8+8+10 \end{bmatrix} + \begin{bmatrix} 8\times018 \end{bmatrix} + \begin{bmatrix} 1\times0.35 \end{bmatrix}$ = 35.15 = 38.-35.15 = 2.85When we are finding for sp 2 's Svalue, then n>0.35, n-1=0.85, n-2=1

The book 0.35 for n & 0.85 for (n-1)... in Sn from certil (rucleus) This is because we have so many orbitals blocking its view (55 is very far away from nucleus) It represents the degree to which inner electrons reduce Zept felt by outer electrons

	F F
	Exception:
3,	If you are asked for Ceff of a 1s e, the total shielding is 0.3. Find Zeff for 1si in Nd
	Nd(60:- (5) 252) doesn't contribute
	$S = (1 \times 0.3) \left[S = 0.3 \text{ (not 0.35)} \right]$ = 0.3
	:. Zeff = 2-S
	2) Zeff = 59.7
4.	Find Zeff for Is = in H
	H(1):- Is'
	$S = 0x^{2}0.35 = 0$
	Undated S-table:
	Updated S-table:
	Same group Same n/1 n-1 < n-2
	[15] 0.3
	[ns,np] 0.35 - 0.85 1
	[nd] [nd] 0.35 I I 1
	ALL I I I I I I I I I I I I I I I I I I
	Note: n > outermost shell (drased on question)
	n-I > shell just before n-shell n-2 > shells lower thern (n-1)
	1 - 1 / Dr vio De vice /