

APPENDIX B

ENERGY PERTURBATION IN THE HYDROGEN MOLECULE.

(E +, E-, J, K, J (PRIME), K (PRIME), AND E** 2/R IN ELECTRON-VOLT)

E +	E -	Distan=R/A0	R (CM.)	J	K	Delta	Delta**2	J (Prime)	K (Prime)	E**2/R
11.920	59.795	.600	3.169E-09	-23.37744	-23.77316	.944	.891	16.16083	12.68902	4.512E + 01
4.292	27.350	.800	4.226E-09	-21.54324	-21.89680	.905	.818	15.63081	13.34121	3.384E + 01
.097	19.084	1.000	5.282E-09	-19.74547	-19.91953	.858	.737	15.01281	11.82166	2.707E + 01
-1.949	13.726	1.200	6.338E-09	-18.05846	-17.93961	.807	.652	14.33754	10.26078	2.256E + 01
-2.856	10.047	1.400	7.395E-09	-16.51589	-16.02295	.753	.567	13.63205	8.75261	1.934E + 01
-3.133	7.442	1.600	8.451E-09	-15.12760	-14.21169	.697	.486	12.91861	7.35202	1.692E + 01
-3.061	5.555	1.800	9.508E-09	-13.89009	-12.53059	.641	.411	12.21456	6.09153	1.504E + 01
-2.803	4.168	2.000	1.056E-08	-12.79292	-10.99198	.586	.344	11.53259	4.98575	1.354E + 01
-2.461	3.138	2.200	1.162E-08	-11.82264	-9.59944	.533	.284	10.88142	4.03613	1.231E + 01
-2.093	2.366	2.400	1.268E-08	-10.96496	-8.35056	.483	.233	10.26646	3.23521	1.128E + 01
-1.737	1.785	2.600	1.373E-08	-10.20607	-7.23903	.435	.189	9.69056	2.57010	1.041E + 01
-1.412	1.346	2.800	1.479E-08	-9.53322	-6.25609	.390	.152	9.15462	2.02519	9.669E + 00
-1.128	1.014	3.000	1.585E-08	-8.93501	-5.39163	.349	.121	8.65818	1.58401	9.054E + 00
-.888	.762	3.200	1.690E-08	-8.40141	-4.63501	.310	.096	8.19981	1.23056	8.460E + 00
-.691	.572	3.400	1.796E-08	-7.92376	-3.97553	.275	.076	7.77746	.95004	7.963E + 00
-.531	.428	3.600	1.902E-08	-7.49458	-3.40284	.244	.059	7.38876	.72926	7.520E + 00
-.405	.320	3.800	2.007E-08	-7.10748	-2.90714	.215	.046	7.03118	.55683	7.125E + 00
-.306	.238	4.000	2.113E-08	-6.75701	-2.47934	.189	.036	6.70214	.42308	6.768E + 00
-.229	.177	4.200	2.218E-08	-6.43852	-2.11111	.166	.028	6.39916	.32000	6.446E + 00
-.171	.131	4.400	2.324E-08	-6.14805	-1.79491	.146	.021	6.11988	.24100	6.153E + 00
-.126	.096	4.600	2.430E-08	-5.88220	-1.52397	.127	.016	5.86209	.18079	5.886E + 00
-.093	.071	4.800	2.535E-08	-5.63809	-1.29228	.111	.012	5.62376	.13512	5.640E + 00
-.068	.052	5.000	2.641E-08	-5.41322	-1.09452	.097	.009	5.40302	.10063	5.415E + 00
-.050	.038	5.200	2.747E-08	-5.20545	-.92599	.084	.007	5.19822	.07471	5.206E + 00
-.036	.028	5.400	2.852E-08	-5.01295	-.78259	.073	.005	5.00782	.05529	5.014E + 00
-.026	.020	5.600	2.958E-08	-4.83411	-.66075	.063	.004	4.83048	.04080	4.835E + 00
-.019	.015	5.800	3.064E-08	-4.66755	-.55737	.055	.003	4.66498	.03002	4.668E + 00
-.014	.011	6.000	3.169E-08	-4.51205	-.46976	.047	.002	4.51024	.02204	4.512E + 00