

Errata

Aerodynamic Interference for Hypersonic Missiles at Low Angle of Attack

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FIGURES 12 and 13 and Tables 1 and 2 are wrong due to an error in the use of A_F . The correct wing area is

$$A_F = \left(\frac{S/R_{LE} - 1}{\tan \epsilon} \right)^2 [\tan \epsilon - \tan \theta] R_{LE}^2 \tag{1}$$

for the wing formed by two fins joined at their root chords. In Fig. 12 and Table 1, θ was incorrectly set to zero. In Fig. 13 and Table 2, the correct value of θ was used, but $A_F/2$ was used instead of A_F . The corrected tables are shown here as Tables 1 and 2. The corrected figures are given here as Figs. 1 and 2.

Table 1 $K_{W(B)}$ at Mach 6, 8, and 10

S/R	$\gamma = 1.4$			$\gamma = 1.3$			SBT
	6	8	10	6	8	10	
1.00	2.000	2.000	2.000	2.000	2.000	2.000	2.000
1.10	1.918	1.873	1.823	1.921	1.879	1.827	1.896
1.20	1.846	1.767	1.679	1.852	1.777	1.685	1.810
1.30	1.784	1.680	1.565	1.791	1.693	1.574	1.739
1.40	1.732	1.615	1.484	1.739	1.628	1.494	1.678
1.50	1.690	1.569	1.434	1.696	1.581	1.444	1.627
1.60	1.660	1.540	1.402	1.665	1.550	1.413	1.582
1.70	1.633	1.518	1.387	1.639	1.528	1.397	1.543
1.80	1.612	1.502	1.376	1.618	1.513	1.387	1.508
1.90	1.592	1.487	1.366	1.598	1.498	1.376	1.478
2.00	1.576	1.476	1.355	1.581	1.486	1.370	1.450
2.10	1.560	1.464	1.348	1.564	1.476	1.361	1.426
2.20	1.545	1.453	1.340	1.550	1.465	1.356	1.404
2.30	1.531	1.444	1.335	1.536	1.455	1.350	1.384
2.40	1.518	1.434	1.329	1.523	1.445	1.343	1.366
2.50	1.505	1.425	1.324	1.512	1.437	1.338	1.349
2.60	1.495	1.417	1.318	1.499	1.429	1.333	1.334
2.70	1.483	1.409	1.314	1.488	1.421	1.329	1.320
2.80	1.473	1.402	1.309	1.477	1.413	1.324	1.307
2.90	1.462	1.395	1.306	1.467	1.405	1.319	1.295
3.00	1.452	1.388	1.301	1.458	1.399	1.315	1.284
3.10	1.443	1.381	1.297	1.447	1.392	1.311	1.274
3.20	1.434	1.375	1.293	1.439	1.385	1.307	1.265
3.30	1.425	1.369	1.290	1.431	1.379	1.302	1.256
3.40	1.417	1.363	1.286	1.422	1.373	1.298	1.247
3.50	1.410	1.357	1.283	1.414	1.367	1.295	1.239
3.60	1.401	1.352	1.279	1.406	1.361	1.291	1.232
3.70	1.394	1.347	1.276	1.399	1.356	1.288	1.225
3.80	1.388	1.341	1.273	1.392	1.350	1.284	1.219
3.90	1.380	1.336	1.270	1.385	1.345	1.280	1.212
4.00	1.374	1.331	1.267	1.378	1.340	1.277	1.206
4.10	1.368	1.326	1.265	1.372	1.335	1.275	1.201
4.20	1.361	1.321	1.262	1.366	1.330	1.272	1.196
4.30	1.355	1.317	1.259	1.359	1.326	1.269	1.191
4.40	1.350	1.313	1.257	1.354	1.320	1.267	1.186
4.50	1.343	1.308	1.255	1.348	1.316	1.265	1.181
4.60	1.338	1.304	1.253	1.342	1.312	1.263	1.177
4.70	1.333	1.300	1.251	1.337	1.308	1.260	1.173
4.80	1.328	1.296	1.250	1.332	1.304	1.258	1.169
4.90	1.322	1.292	1.248	1.327	1.299	1.256	1.165
5.00	1.318	1.289	1.247	1.321	1.296	1.254	1.162

Table 2 $K_{B(W)}$ at Mach 6, 8, and 10

S/R	$\gamma = 1.4$			$\gamma = 1.3$			SBT
	6	8	10	6	8	10	
1.00	2.000	2.000	2.000	2.000	2.000	2.000	2.000
1.10	1.459	1.535	1.565	1.463	1.543	1.575	1.749
1.20	1.023	1.154	1.209	1.030	1.169	1.228	1.551
1.30	0.693	0.858	0.934	0.702	0.876	0.959	1.391
1.40	0.469	0.647	0.739	0.478	0.666	0.767	1.260
1.50	0.351	0.519	0.623	0.358	0.538	0.652	1.151
1.60	0.299	0.437	0.548	0.305	0.452	0.575	1.059
1.70	0.262	0.379	0.473	0.268	0.391	0.496	0.980
1.80	0.235	0.335	0.417	0.240	0.346	0.437	0.912
1.90	0.215	0.301	0.373	0.219	0.311	0.391	0.852
2.00	0.199	0.275	0.339	0.201	0.283	0.354	0.800
2.10	0.185	0.253	0.311	0.189	0.261	0.325	0.753
2.20	0.175	0.235	0.287	0.177	0.242	0.301	0.712
2.30	0.167	0.221	0.268	0.169	0.227	0.280	0.675
2.40	0.159	0.207	0.251	0.161	0.213	0.262	0.641
2.50	0.153	0.197	0.236	0.154	0.202	0.247	0.611
2.60	0.147	0.188	0.224	0.149	0.192	0.234	0.583
2.70	0.143	0.179	0.213	0.145	0.184	0.222	0.558
2.80	0.139	0.172	0.204	0.140	0.176	0.212	0.535
2.90	0.135	0.166	0.195	0.137	0.169	0.203	0.513
3.00	0.132	0.160	0.187	0.133	0.163	0.194	0.493
3.10	0.130	0.154	0.180	0.131	0.158	0.187	0.475
3.20	0.127	0.150	0.174	0.128	0.153	0.180	0.458
3.30	0.125	0.146	0.168	0.125	0.148	0.174	0.442
3.40	0.123	0.141	0.163	0.123	0.145	0.169	0.428
3.50	0.121	0.138	0.158	0.122	0.140	0.163	0.414
3.60	0.119	0.135	0.154	0.120	0.138	0.159	0.401
3.70	0.117	0.132	0.149	0.118	0.134	0.154	0.389
3.80	0.116	0.129	0.146	0.117	0.132	0.149	0.377
3.90	0.115	0.126	0.142	0.116	0.128	0.146	0.366
4.00	0.114	0.124	0.139	0.115	0.126	0.142	0.356
4.10	0.112	0.122	0.135	0.113	0.124	0.139	0.346
4.20	0.112	0.120	0.132	0.112	0.122	0.136	0.337
4.30	0.111	0.118	0.130	0.111	0.120	0.133	0.329
4.40	0.110	0.116	0.127	0.111	0.118	0.131	0.320
4.50	0.109	0.115	0.125	0.109	0.116	0.128	0.313
4.60	0.108	0.113	0.123	0.108	0.115	0.126	0.305
4.70	0.108	0.112	0.120	0.108	0.113	0.124	0.298
4.80	0.107	0.111	0.119	0.107	0.112	0.122	0.291
4.90	0.106	0.109	0.117	0.106	0.111	0.120	0.285
5.00	0.105	0.108	0.115	0.106	0.110	0.118	0.278

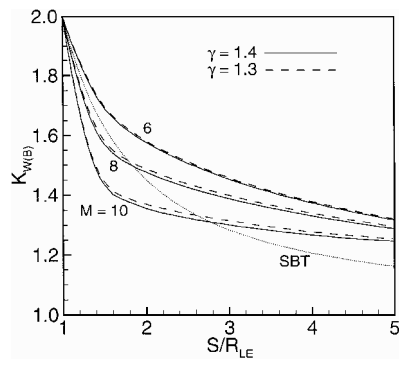


Fig. 1 $K_{W(B)}$ vs S/R_{LE} for $M = 6, 8$, and 10 at $\gamma = 1.4$ and 1.3 .

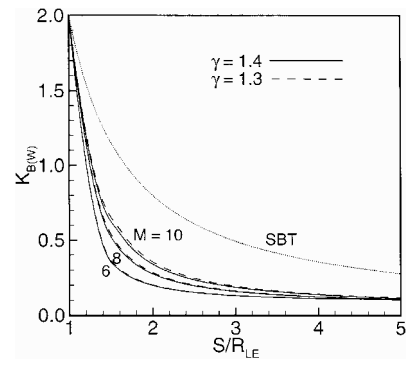


Fig. 2 $K_{B(W)}$ vs S/R_{LE} for $M = 6, 8$, and 10 at $\gamma = 1.4$ and 1.3 .