

**Table 6.1 Empty weight fraction vs  $W_0$ ,  $A$ ,  $T/W_0$ ,  $W_0/S$ , and  $M_{\max}$** 

$$W_e/W_0 = (a + bW_0^{C1}A^{C2}(T/W_0)^{C3}(W_0/S)^{C4}M_{\max}^{C5})K_{vs}$$

fps units	$a$	$b$	$C1$	$C2$	$C3$	$C4$	$C5$
Jet trainer	0	4.28	-0.10	0.10	0.20	-0.24	0.11
Jet fighter	-0.02	2.16	-0.10	0.20	0.04	-0.10	0.08
Military cargo/bomber	0.07	1.71	-0.10	0.10	0.06	-0.10	0.05
Jet transport	0.32	0.66	-0.13	0.30	0.06	-0.05	0.05

$K_{vs}$  = variable sweep constant = 1.04 if variable sweep  
= 1.00 if fixed sweep