PARSEC-29

Parameter list and illustration for a wing section geometry generator

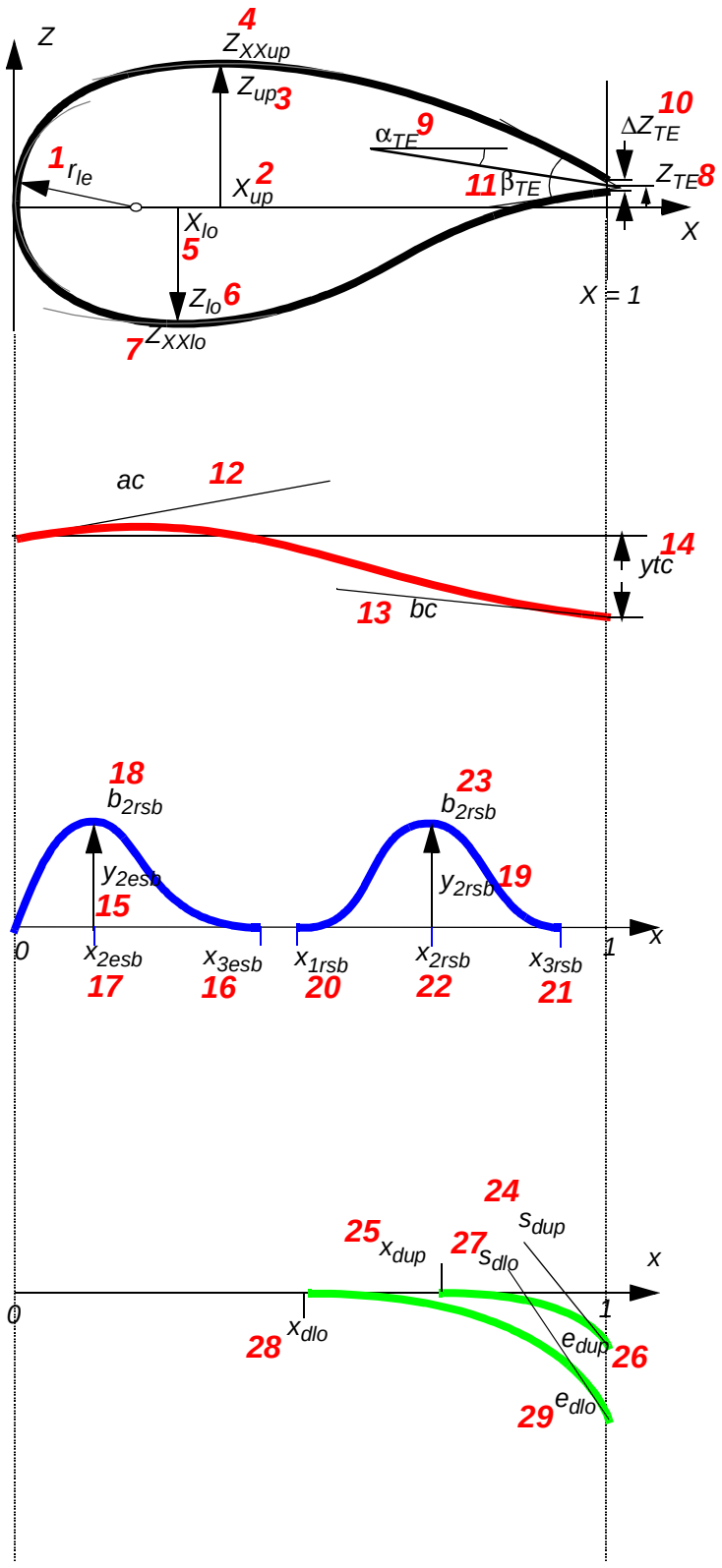
i	Name	lo	hi	Remark
1	rle	**0.**	0.5	l. e. radius
2	xu	0.3	0.7	up. crest x station
3	zu	**0.**	0.5	up. crest ordinate
4	zxxu	-2.	**0.**	up. crest curvature
5	xl	0.3	0.7	lo. crest x station
6	zl	-0.5	**0.**	lo. crest ordinate
7	zxxl	**0.**	2.	lo. crest curvature
8	zte	-0.2	**0.** 0.2	t.e. ordinate
9	teg	**0.**	-30.	t.e. bisector angle (degr.)
10	tte	**0.**	0.05	t. e. thickness
11	tew	**0.**	30.	t.e. wedge angle (degrees)
12	ac	-0.5	**0.** 0.5	l.e. slope, added camber
13	bc	-0.5	**0.** 0.5	t.e. slope added camber
14	ytc	0.5	**0.** -0.5	t.e. camber added ordinate
15	y2esb	**0.**	0.2	ESB crest ordinate
16	x3esb	0.05	1.0	ESB end x station
17	x2esb	>0.	< x3esb	ESB crest x station
18	b2esb	0.	2.0	ESB crest curvature control
19	y2rsb	**0.**	0.2	RSB crest ordinate
20	x1rsb	0.	0.9	RSB start x station
21	x3rsb	>x1rsb	<1.	RSB end x station
22	x2rsb	>x1rsb	< x3rsb	RSB crest x station
23	b2rsb	0.	2.0	RSB crest curvature control
24	sdup	-1.0.	**0.** 1.0	DTE up. slope modification
25	xdup	0.8	1.0	DTE up. mod. x-start
26	edup	1.0	2.0	DTE up. mod. exponent
27	sdlo	-1.0	**0.** 1.0	DTE lo. slope modification
28	xdlo	0.8	1.0	DTE lo. mod. x-start
29	edlo	1.0	2.0	DTE lo. mod. exponent
30				

Basic PARSEC-11

Additions PARSEC-14

Additions PARSEC-23

Additions PARSEC-29



Reference:

Sobieczky, H.: Parameterized Airfoils and Wings. Notes of Numerical Fluid Mechanics, Vol. 68, Ed.: Kozo Fujii and George S. Dulikravich. Wiesbaden: Vieweg (1999), pp 68-87.