



























































































	Section_beam				
Additional but	Additional built in sections are now				
available					
Type01: I-shape	Type12: Cross				
Type02: Channel	Type13: H-shape				
Type03: L-shape	Type14: T-shape1				
Type04: T-shape	Type15: I-shape2				
Type05: Tubular box	Type16: Channel1				
Type06: Z-shape	Type17: Channel2				
Type07: Trapezoidal	Type18: T-shape2				
Type08: Circular	Type19: Box-shape1				
Type09: Tubular	Type20: Hexagon				
Type10: I-shape1	Type21: Hat-shape				
Type11: Solid box	Type22: Hat-shape1				

*Integra	ation_beam
 Built-in integration ru sections. Before, the 	les are also available for all 22 first 7 were supported.
Type 01: I-shape	Type 12: Cross
Type 02: Channel	Type 13: H-shape
Type 03: L-shape	Type 14: T-shape1
Type 04: T-shape	Type 15: I-shape2
Type 05: Tubular box	Type 16: Channel1
Type 06: Z-shape	Type 17: Channel2
Type 07: Trapezoidal	Type 18: T-shape2
Type 08: Circular	Type 19: Box-shape1
Type 09: Tubular	Type 20: Hexagon
Type 10: I-shape1	Type 21: Hat-shape
Type 11: Solid box	Type 22: Hat-shape1
LSTC United Schere	48





Ligen		
		,
	0.1	0.05
Shell	$t_f = t_w = 0.1$	$t_f = t_w = 0.05$
Bending about y	264.2	246.1
Bending about z	592.2	587.2
Twist/Bend	1290/1313	851.5
Double twist	1867	975.7
Triple twist	-	1053
Warped beam		
Bending about y	438.6	429.1
Bending about z	544.9	547.3
Twist	1142/1168	897.5/929.2
Double twist	1292	1040
Triple twist	1431	1162
Hughes-Liu		
Bending about y	718.9	724.1
Bending about z	544.9	547.4





































































































Developm LS-Pr	ent goals ePost
 Full post-processing analyses State results animatio Fringe component plo ALE fluid data process Extensive model visua History data manipula graphics Use command macro Save DB file with part Chaining multiple mod springback) into single 	support for all LS-DYNA n ts sing and visualization ilization and time history plotting tion using command file without for repeated operations ial model, and selected states dels (forming, trimming, e sequence
LSTC Learner behave	103











2	Version 980
	Version 980 introduces four new packages and significant enhancements to the incompressible flow solver
	 LSPLOT is a new highly flexible output database that allows for unlimited flexibility
	A new explicit compressible flow solver based upon the Conservation Element/Solution Element (CE/SE) Method
	Solid-fluid heat flow coupling for the incompressible flow solver
	 Radiative heat transport through participating media, as well as using exchange factors Initially coupled to the incompressible flow solver
	Electromagnetic solver
	A new code framework, including new meshes, has been created for these physics packages
	 Largest rewrite of LS-DYNA ever attempted.























