

Table F2: Superheated Steam, SI Units

		TEMPERATURE: t °C (TEMPERATURE: T kelvins)									
P/kPa ($t^{sat}/^{\circ}C$)		sat. liq.	sat. vap.	75 (348.15)	100 (373.15)	125 (398.15)	150 (423.15)	175 (448.15)	200 (473.15)	225 (498.15)	250 (523.15)
1 (6.98)	V	1.000	129200.	160640.	172180.	183720.	195270.	206810.	218350.	229890.	241430.
	U	29.334	2385.2	2480.8	2516.4	2552.3	2588.5	2624.9	2661.7	2698.8	2736.3
	H	29.335	2514.4	2641.5	2688.6	2736.0	2783.7	2831.7	2880.1	2928.7	2977.7
	S	0.1060	8.9767	9.3828	9.5136	9.6365	9.7527	9.8629	9.9679	10.0681	10.1641
10 (45.83)	V	1.010	14670.	16030.	17190.	18350.	19510.	20660.	21820.	22980.	24130.
	U	191.822	2438.0	2479.7	2515.6	2551.6	2588.0	2624.5	2661.4	2698.6	2736.1
	H	191.832	2584.8	2640.0	2687.5	2735.2	2783.1	2831.2	2879.6	2928.4	2977.4
	S	0.6493	8.1511	8.3168	8.4486	8.5722	8.6888	8.7994	8.9045	9.0049	9.1010
20 (60.09)	V	1.017	7649.8	8000.0	8584.7	9167.1	9748.0	10320.	10900.	11480.	12060.
	U	251.432	2456.9	2478.4	2514.6	2550.9	2587.4	2624.1	2661.0	2698.3	2735.8
	H	251.453	2609.9	2638.4	2686.3	2734.2	2782.3	2830.6	2879.2	2928.0	2977.1
	S	0.8321	7.9094	7.9933	8.1261	8.2504	8.3676	8.4785	8.5839	8.6844	8.7806
30 (69.12)	V	1.022	5229.3	5322.0	5714.4	6104.6	6493.2	6880.8	7267.5	7653.8	8039.7
	U	289.271	2468.6	2477.1	2513.6	2550.2	2586.8	2623.6	2660.7	2698.0	2735.6
	H	289.302	2625.4	2636.8	2685.1	2733.3	2781.6	2830.0	2878.7	2927.6	2976.8
	S	0.9441	7.7695	7.8024	7.9363	8.0614	8.1791	8.2903	8.3960	8.4967	8.5930
40 (75.89)	V	1.027	3993.4	.....	4279.2	4573.3	4865.8	5157.2	5447.8	5738.0	6027.7
	U	317.609	2477.1	.....	2512.6	2549.4	2586.2	2623.2	2660.3	2697.7	2735.4
	H	317.650	2636.9	.....	2683.8	2732.3	2780.9	2829.5	2878.2	2927.2	2976.5
	S	1.0261	7.6709	.....	7.8009	7.9268	8.0450	8.1566	8.2624	8.3633	8.4598
50 (81.35)	V	1.030	3240.2	.....	3418.1	3654.5	3889.3	4123.0	4356.0	4588.5	4820.5
	U	340.513	2484.0	.....	2511.7	2548.6	2585.6	2622.7	2659.9	2697.4	2735.1
	H	340.564	2646.0	.....	2682.6	2731.4	2780.1	2828.9	2877.7	2926.8	2976.1
	S	1.0912	7.5947	.....	7.6953	7.8219	7.9406	8.0526	8.1587	8.2598	8.3564
75 (91.79)	V	1.037	2216.9	.....	2269.8	2429.4	2587.3	2744.2	2900.2	3055.8	3210.9
	U	384.374	2496.7	.....	2509.2	2546.7	2584.2	2621.6	2659.0	2696.7	2734.5
	H	384.451	2663.0	.....	2679.4	2728.9	2778.2	2827.4	2876.6	2925.8	2975.3
	S	1.2131	7.4570	.....	7.5014	7.6300	7.7500	7.8629	7.9697	8.0712	8.1681
100 (99.63)	V	1.043	1693.7	.....	1695.5	1816.7	1936.3	2054.7	2172.3	2289.4	2406.1
	U	417.406	2506.1	.....	2506.6	2544.8	2582.7	2620.4	2658.1	2695.9	2733.9
	H	417.511	2675.4	.....	2676.2	2726.5	2776.3	2825.9	2875.4	2924.9	2974.5
	S	1.3027	7.3598	.....	7.3618	7.4923	7.6137	7.7275	7.8349	7.9369	8.0342

APPENDIX F: Steam Tables

101.325 (100.00)	V	1.044	1673.0	.....	1673.0	1792.7	1910.7	2027.7	2143.8	2259.3	2374.5
	U	418.959	2506.5	.....	2506.5	2544.7	2582.6	2620.4	2658.1	2695.9	2733.9
	H	419.064	2676.0	.....	2676.0	2726.4	2776.2	2825.8	2875.3	2924.8	2974.5
	S	1.3069	7.3554	.....	7.3554	7.4860	7.6075	7.7213	7.8288	7.9308	8.0280
125 (105.99)	V	1.049	1374.6	.....	.....	1449.1	1545.6	1641.0	1735.6	1829.6	1923.2
	U	444.224	2513.4	.....	.....	2542.9	2581.2	2619.3	2657.2	2695.2	2733.3
	H	444.356	2685.2	.....	.....	2724.0	2774.4	2824.4	2874.2	2923.9	2973.7
	S	1.3740	7.2847	.....	.....	7.3844	7.5072	7.6219	7.7300	7.8324	7.9300
150 (111.37)	V	1.053	1159.0	.....	.....	1204.0	1285.2	1365.2	1444.4	1523.0	1601.3
	U	466.968	2519.5	.....	.....	2540.9	2579.7	2618.1	2656.3	2694.4	2732.7
	H	467.126	2693.4	.....	.....	2721.5	2772.5	2822.9	2872.9	2922.9	2972.9
	S	1.4336	7.2234	.....	.....	7.2953	7.4194	7.5352	7.6439	7.7468	7.8447
175 (116.06)	V	1.057	1003.34	.....	.....	1028.8	1099.1	1168.2	1236.4	1304.1	1371.3
	U	486.815	2524.7	.....	.....	2538.9	2578.2	2616.9	2655.3	2693.7	2732.1
	H	487.000	2700.3	.....	.....	2719.0	2770.5	2821.3	2871.7	2921.9	2972.0
	S	1.4849	7.1716	.....	.....	7.2191	7.3447	7.4614	7.5708	7.6741	7.7724
200 (120.23)	V	1.061	885.44	.....	.....	897.47	959.54	1020.4	1080.4	1139.8	1198.9
	U	504.489	2529.2	.....	.....	2536.9	2576.6	2615.7	2654.4	2692.9	2731.4
	H	504.701	2706.3	.....	.....	2716.4	2768.5	2819.8	2870.5	2920.9	2971.2
	S	1.5301	7.1268	.....	.....	7.1523	7.2794	7.3971	7.5072	7.6110	7.7096
225 (123.99)	V	1.064	792.97	.....	.....	795.25	850.97	905.44	959.06	1012.1	1064.7
	U	520.465	2533.2	.....	.....	2534.8	2575.1	2614.5	2653.5	2692.2	2730.8
	H	520.705	2711.6	.....	.....	2713.8	2766.5	2818.2	2869.3	2919.9	2970.4
	S	1.5705	7.0873	.....	.....	7.0928	7.2213	7.3400	7.4508	7.5551	7.6540
250 (127.43)	V	1.068	718.44	.....	.....	.....	764.09	813.47	861.98	909.91	957.41
	U	535.077	2536.8	.....	.....	.....	2573.5	2613.3	2652.5	2691.4	2730.2
	H	535.343	2716.4	.....	.....	.....	2764.5	2816.7	2868.0	2918.9	2969.6
	S	1.6071	7.0520	.....	.....	.....	7.1689	7.2886	7.4001	7.5050	7.6042
275 (130.60)	V	1.071	657.04	.....	.....	.....	693.00	738.21	782.55	826.29	869.61
	U	548.564	2540.0	.....	.....	.....	2571.9	2612.1	2651.6	2690.7	2729.6
	H	548.858	2720.7	.....	.....	.....	2762.5	2815.1	2866.8	2917.9	2968.7
	S	1.6407	7.0201	.....	.....	.....	7.1211	7.2419	7.3541	7.4594	7.5590
300 (133.54)	V	1.073	605.56	.....	.....	.....	633.74	675.49	716.35	756.60	796.44
	U	561.107	2543.0	.....	.....	.....	2570.3	2610.8	2650.6	2689.9	2729.0
	H	561.429	2724.7	.....	.....	.....	2760.4	2813.5	2865.5	2916.9	2967.9
	S	1.6716	6.9909	.....	.....	.....	7.0771	7.1990	7.3119	7.4177	7.5176