20.10. Comparative Notations

	This Volume	[20.58] NBS	[20.59] Stratton-Morse, etc.	[20.36] Meixner and Schäfke	[20.30] McLachlan	[20.15] Bateman Manuscript	Comments
Parameters in 20.1.1	a	$b=a+2q$	b	λ	a	h	
	q	$s=4q$	$c=2\sqrt{q}$	h^2	q	θ	
	a_r	$be_r=a_r+2q$	$b_r=a_r+2q$	a_r	a_r	a_r	
	b_r	$bo_r=b_r+2q$	$b_r'=b_r+2q$	b_r	b_r	b_r	
Periodic Solutions, of 20.1.1:							
Even	$ce_r(z, q)$	$A^r\,Se_r(s, x)$ *	$A^r\,Se_r^{(1)}(z, \cos x)$ *	$ce_r(z, h^2)$ *	$ce_r(z, q)$	$ce_r(z, \theta)$	See Note 1.
Odd	$se_r(z, q)$	$B^r\,So_r(s, x)$ *	$A^r\,So_r^{(1)}(z, \cos x)$ *	$se_r(z, h^2)$ *	$se_r(z, q)$	$se_r(z, \theta)$	
Coefficients in Periodic Solutions:							
Even	$A_m^r(q)$	$A^r\,De_m^r(s)$ *	$A^r\,D_m^r$ *	A_m^r	A_m^r	A_m^r	
Odd	$B_m^r(q)$	$B^r\,Do_m^r(s)$ *	$B^rF_m^r$ *	B_m^r	B_m^r	B_m^r	
$\frac{1}{\pi}\int_0^{2\pi} y^2\,dx$, y is the Standard Solution of 20.1.1.	1	$(A^r)^{-2}$ or $(B^r)^{-2}$	$(A^r)^{-2}$ or $(B^r)^{-2}$	1	1	1	See Note 1.
Floquet's Solutions 20.3.8	$F_\nu(z)$			$me_\nu(z, h^2)$	$\phi(z)$		
Characteristic Exponent	ν	$\mu=i\nu$		ν	$\mu=i\nu$	$\mu=i\nu$	
Normalizations of Floquet's Solutions.	Unspecified			$\frac{1}{\pi}\int_0^\pi (me_\nu(z, h^2)me_{-\nu}(z, h^2)=1$			
Solutions of Modified Equation 20.1.2.	$Ce_r(z, q)$	$Ag_{e,r}(s)Je_r(s, q)$	$Ag_{e,r}(s)Je_r(c, \cosh x)$	$Ce_r(z, q)$	$Ce_r(z, q)$	$Ce_r(z, \theta)$	
	$Se_r(z, q)$	$Bg_{o,r}(s)Jo_r(s, q)$	$Bg_{o,r}(s)Jo_r(c, \cosh x)$	$Se_r(z, q)$	$Se_r(z, q)$	$Se_r(z, \theta)$	
	$Mc_r^{(1)}(z, q)$	$\sqrt{\frac{2}{\pi}}\,Je_r(s, z)$	$\sqrt{\frac{2}{\pi}}\,Je_r(c, \cosh z)$	$Mc_r^{(1)}(z, h)$	$\sqrt{\frac{2}{\pi}}\,Ce_r(z, q)/Ag_{e,r}(q)$	$\sqrt{\frac{2}{\pi}}\,Ce_r(z, \theta)/Ag_{e,r}(q)$	
	$Ms_r^{(1)}(z, q)$	$\sqrt{\frac{2}{\pi}}\,Jo_r(s, z)$	$\sqrt{\frac{2}{\pi}}\,Jo_r(c, \cosh z)$	$Ms_r^{(1)}(z, h)$	$\sqrt{\frac{2}{\pi}}\,Se_r(z, q)/Bg_{o,r}(q)$	$\sqrt{\frac{2}{\pi}}\,Se_r(z, \theta)/Bg_{o,r}(q)$	
	$Mc_r^{(2)}(z, q)$	$\sqrt{\frac{2}{\pi}}\,Ne_r(s, z)$	$\sqrt{\frac{2}{\pi}}\,Ne_r(c, \cosh z)$	$Mc_r^{(2)}(z, h)$	$\sqrt{\frac{2}{\pi}}\,Fey_r(z, q)/Ag_{e,r}(q)$	$\sqrt{\frac{2}{\pi}}\,Fey_r(z, \theta)/Ag_{e,r}(q)$	
	$Ms_r^{(2)}(z, q)$	$\sqrt{\frac{2}{\pi}}\,No_r(s, z)$	$\sqrt{\frac{2}{\pi}}\,No_r(c, \cosh z)$	$Ms_r^{(2)}(z, h)$	$\sqrt{\frac{2}{\pi}}\,Gey_r(z, q)/Bg_{o,r}(q)$	$\sqrt{\frac{2}{\pi}}\,Gey_r(z, \theta)/Bg_{o,r}(q)$	
Joining Factors	$\sqrt{2/\pi}/Mc_r^{(1)}(0, q)$	$g_{e,r}(s)$	$\sqrt{2\pi}\,\lambda_r^{(e)}$	$\sqrt{2/\pi}/Mc_r^{(1)}(0, h)$	$(-1)^r p_r\sqrt{\frac{2}{\pi}}/A$	Same as [20.30]	See Note 2.
	$\sqrt{2/\pi}/\frac{d}{dz}[Ms_r^{(1)}(z, q)]_{z=0}$	$g_{o,r}(s)$	$\sqrt{2\pi}\,\lambda_r^{(o)}$	$\sqrt{2/\pi}/\frac{d}{dz}[Ms_r^{(1)}(z, h)]_{z=0}$	$(-1)^r s_r\sqrt{\frac{2}{\pi}}/B$		
	$-Mc_r^{(2)}(0, q)/Mc_r^{(1)}(0, q)$	$f_{e,r}(s)$	$-\frac{2}{\pi}\frac{K_1'}{K_1}$	$-Mc_r^{(2)}(0, h)/Mc_r^{(1)}(0, h)$	$\frac{-Fey_r(0, q)}{Ce_r(0, q)}$	Same as [20.30]	See Note 3.
	$\left[\frac{\frac{d}{dz}Ms_r^{(2)}(z, q)}{\frac{d}{dz}Ms_r^{(1)}(z, q)}\right]_{z=0}$	$f_{o,r}(s)$	$\frac{2}{\pi}\frac{K_2'}{K_2}$	Same as this volume	$\left[\frac{\frac{d}{dz}Gey_r(z, q)}{\frac{d}{dz}Se_r(z, q)}\right]_{z=0}$	Same as [20.30]	

NOTE: 1. The conversion factors A^r and B^r are tabulated in [20.58] along with the coefficients.
2. The multipliers p_r and s_r are defined in [20.30], Appendix 1, section 3, equations 3, 4, 5, 6.
3. See [20.59], sections (5.3) and (5.5). In eq. (316) of (5.5), the first term should have a minus sign.

*See page II.