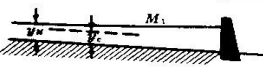
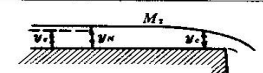
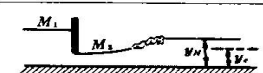
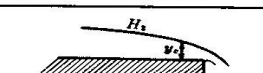

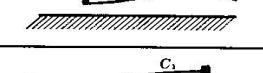

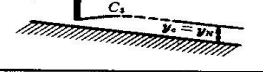

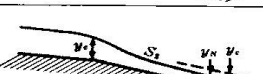
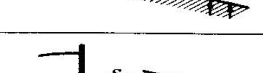

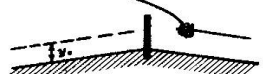


Channel Slope	Depth Relations	$\left(\frac{dy}{dL}\right)$	Type of Profile	Symbol	Type of Flow	Form of Profile
Mild $0 < S < S_c$	$y > y_N > y_c$	+	Backwater	$M_1$	Subcritical	
	$y_N > y > y_c$	-	Dropdown	$M_2$	Subcritical	
	$y_N > y_c > y$	+	Backwater	$M_3$	Supercritical	
Horizontal $S = 0$ $y_N = \infty$	$y > y_c$	-	Dropdown	$H_2$	Subcritical	
	$y_c > y$	+	Backwater	$H_3$	Supercritical	
Critical $S_N = S_c$ $y_N = y_c$	$y > y_c = y_N$	+	Backwater	$C_1$	Subcritical	
	$y_c = y = y_N$		Parallel to bed	$C_2$	Uniform, Critical	
	$y_c = y_N > y$	+	Backwater	$C_3$	Supercritical	
Steep $S > S_c > 0$	$y > y_c > y_N$	+	Backwater	$S_1$	Subcritical	
	$y_c > y > y_N$	-	Dropdown	$S_2$	Supercritical	
	$y_c > y_N > y$	+	Backwater	$S_3$	Supercritical	
Adverse $S < 0$ $y_N = \infty$	$y > y_c$	-	Dropdown	$A_2$	Subcritical	
	$y_c > y$	+	Backwater	$A_3$	Supercritical	

Evet, J B, Liu C. (1988),  
McGRAW-Hill, USA

Fig. A-19

Types of profiles in open-channel flow.