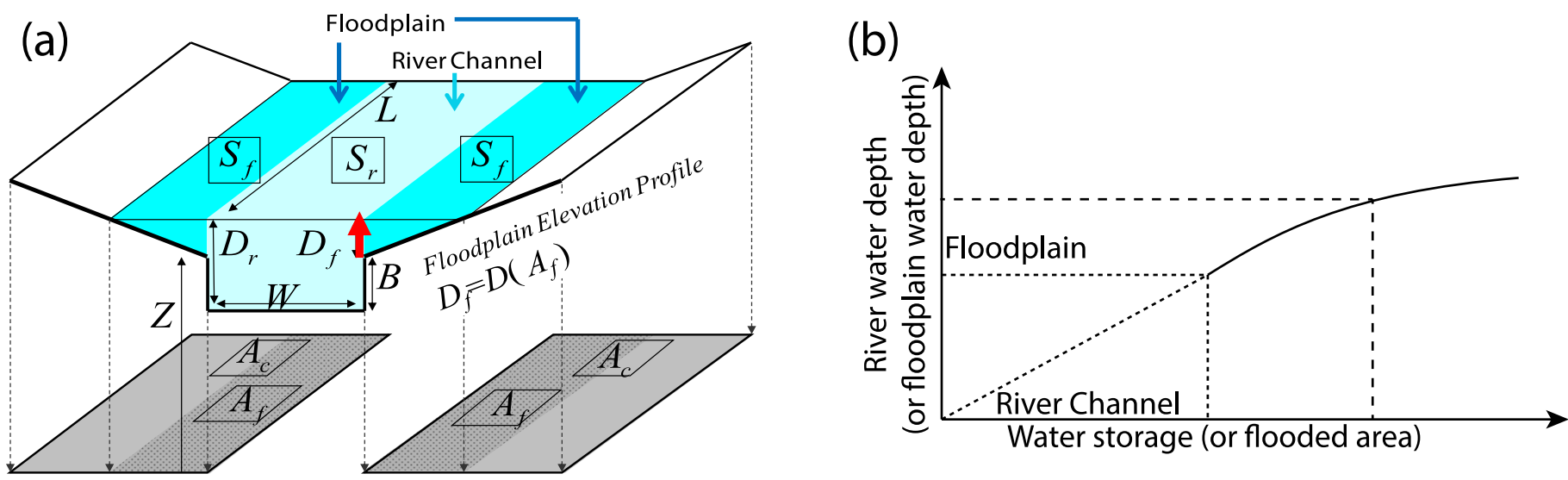
(a)
Floodplain
River Channel
L
S_f
S_r
S_f
D_r
D_f
B
W
Z
Floodplain Elevation Profile
$D_f = D(A_f)$
A_c
A_f
A_c
A_f
(b)
River water depth
(or floodplain water depth)
Floodplain
River Channel
Water storage (or flooded area)