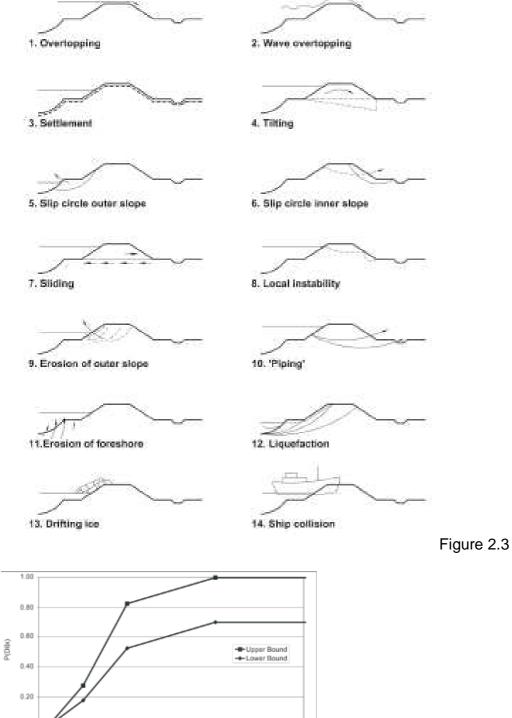
## The Rock Manual 2007 (c683) – digital version

The digital version of the Rock Manual is available on CD with the printed book. It can also be downloaded from the CIRIA website.

To avoid illegal copyright, the resolution of the Figures on the PDF is low. However a number of the Figures have become unreadable, especially in Chapter 5. This PDF document contains better quality Figures ; only those Figures which are unreadable are copied in this document.

## Figures of Chapter 2:



0.00 0.00 1.00 2.00 3.00 Figure 2.6



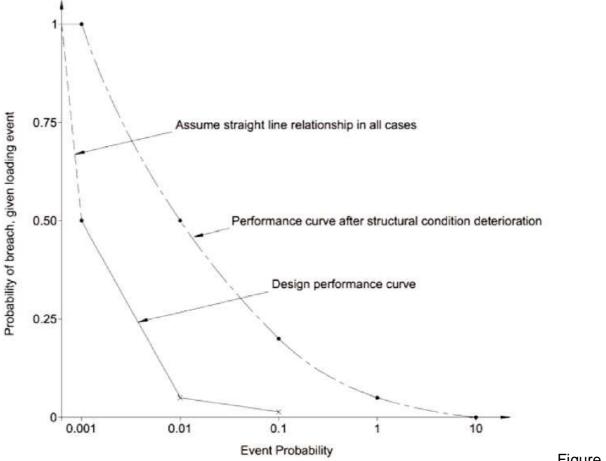
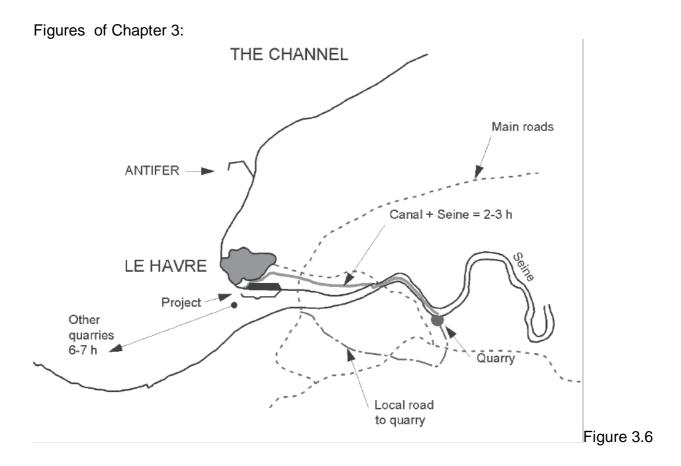


Figure 2.7



Figures of Chapter 4:

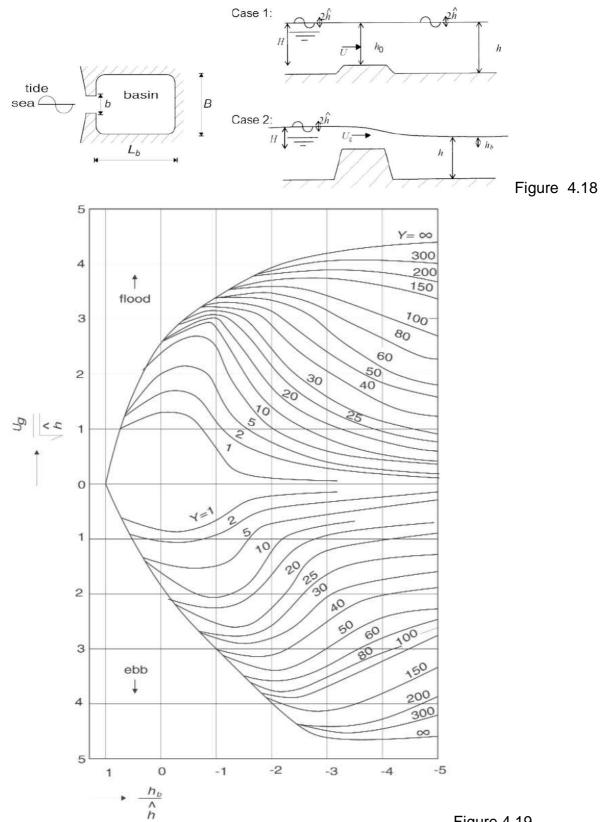


Figure 4.19

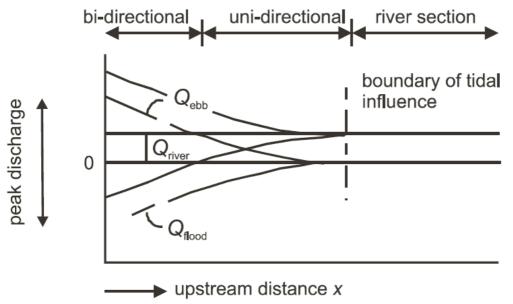


Figure 4.20

## Figures from Chapter 5:

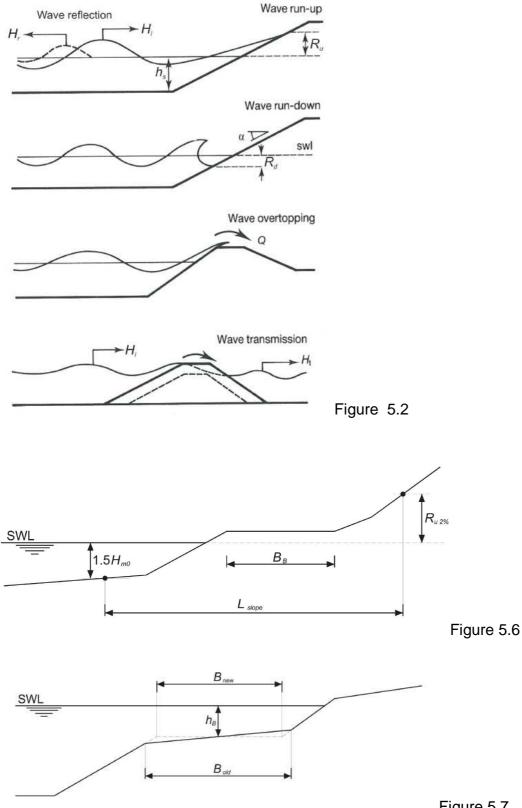


Figure 5.7

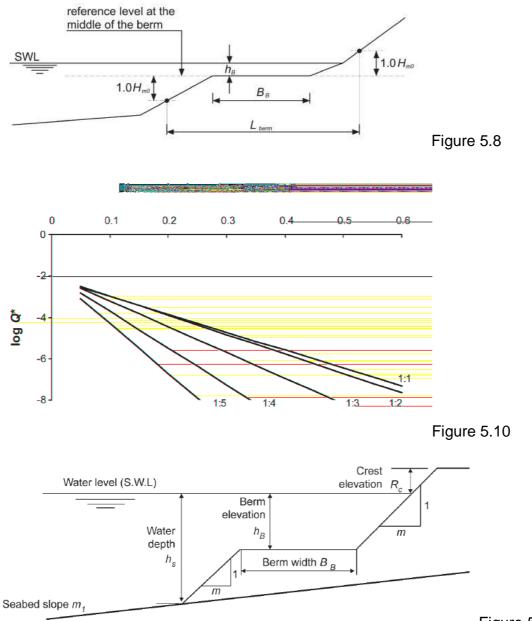
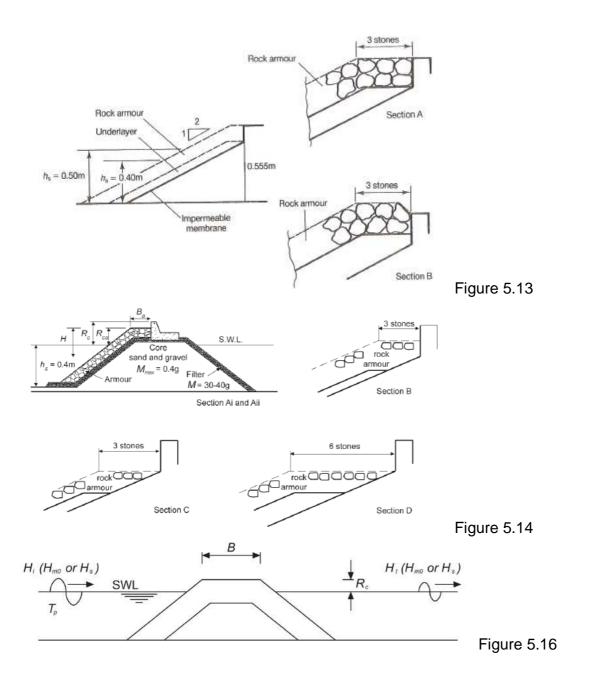
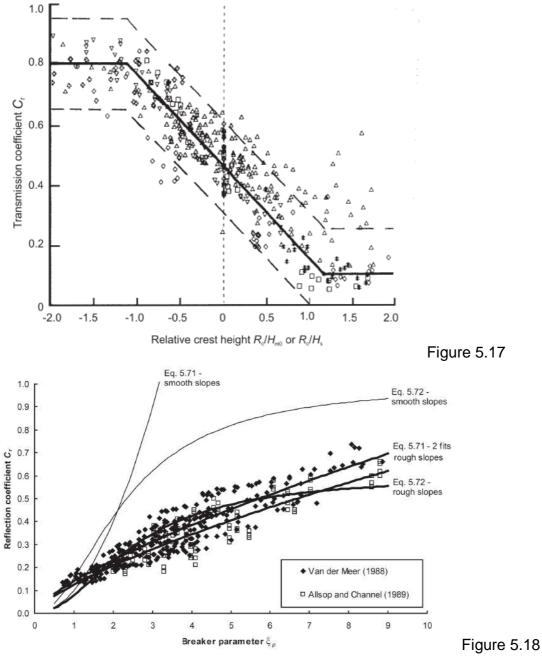


Figure 5.11





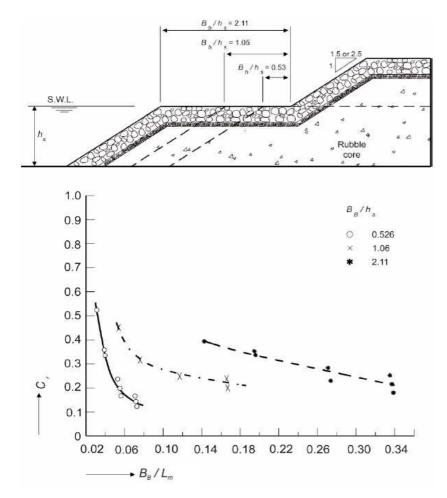
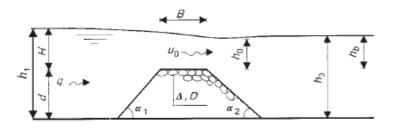


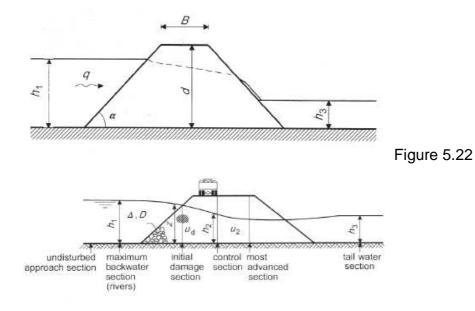
Figure	5.19
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regime	flow	criterion
low dam flow		$\frac{h_b}{\Delta D} \ge 4$
intermediate flow		$\frac{1}{\Delta D} < 4$
high dam flow		$\frac{h_b}{\Delta D} < -1$ and $H > 0$
through flow		H < 0



Note: D should read  $D_{n50}$  in this figure

Figure 5.21



Note: D should read  $D_{n50}$  in this figure

A,D

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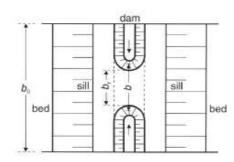


Figure 5.23

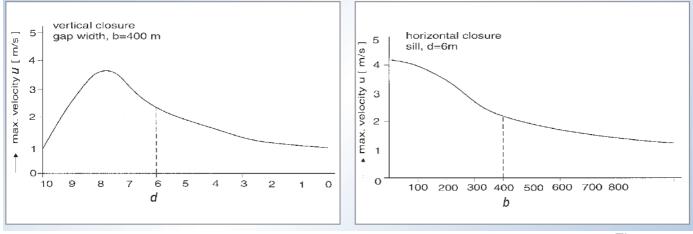
Note: D should read  $D_{n50}$  in this figure

U2

ź  $u_d$ 

E.u

Figure 5.24





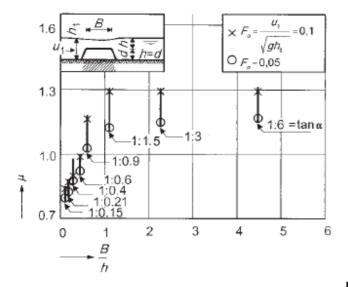
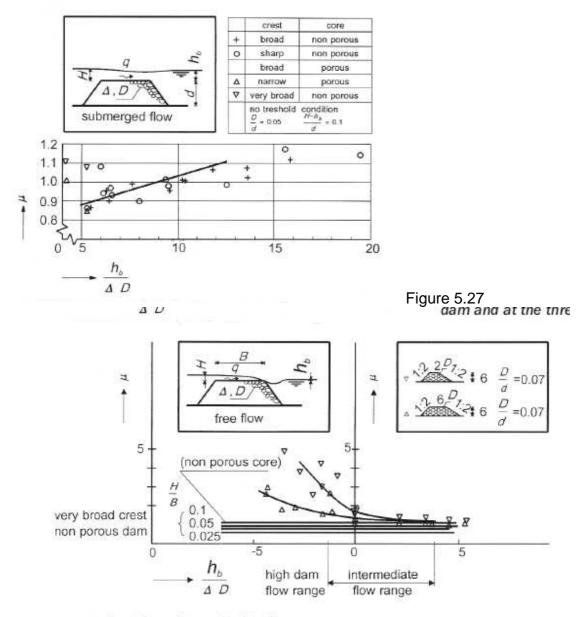


Figure 5.26



Note: D should read  $D_{n50}$  in this figure

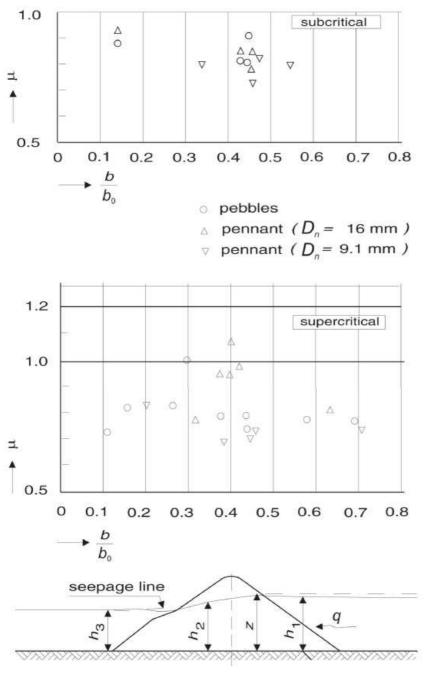
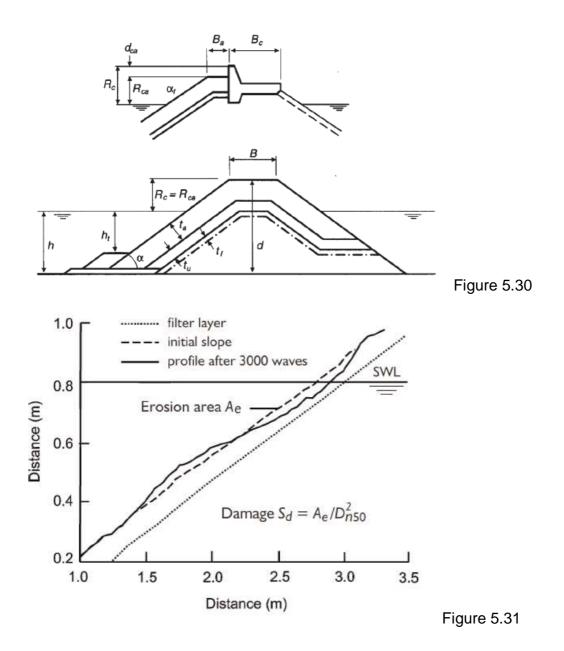
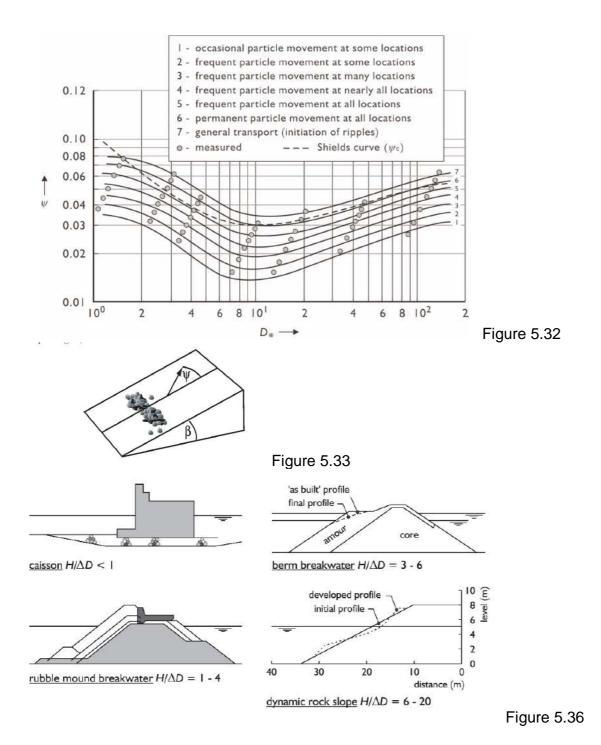
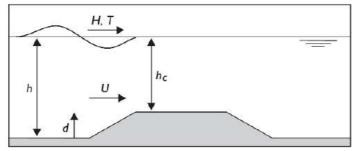


Figure 5.29

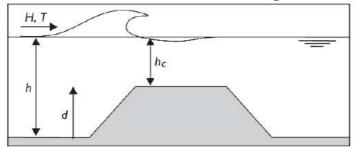




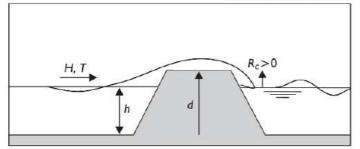
near-bed structure



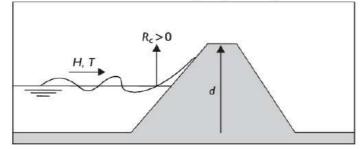
submerged structure



low-crested structure



non- or marginally overtopped structure



reshaping structure

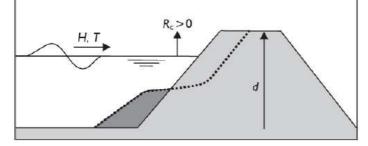
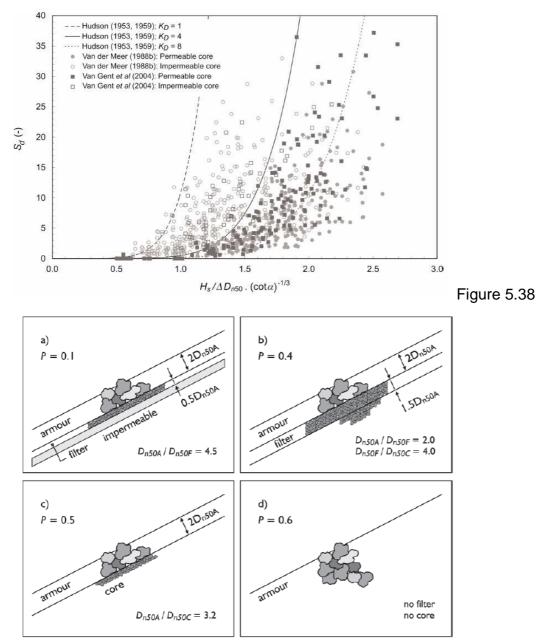
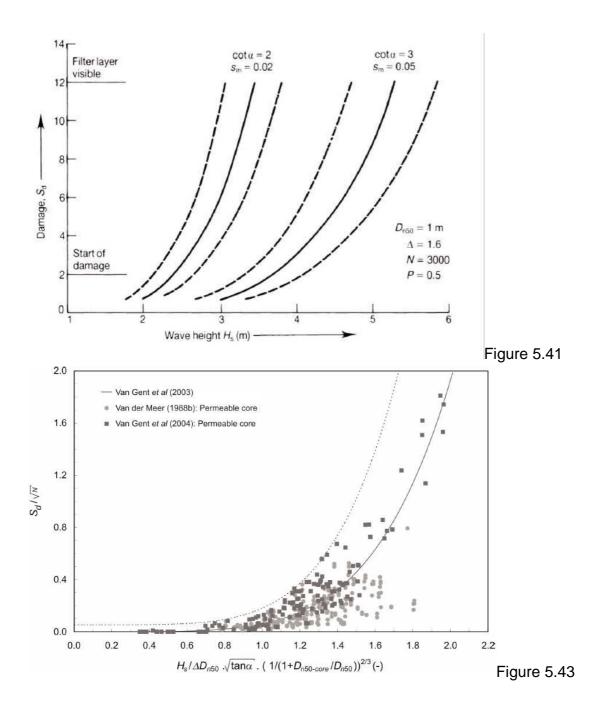


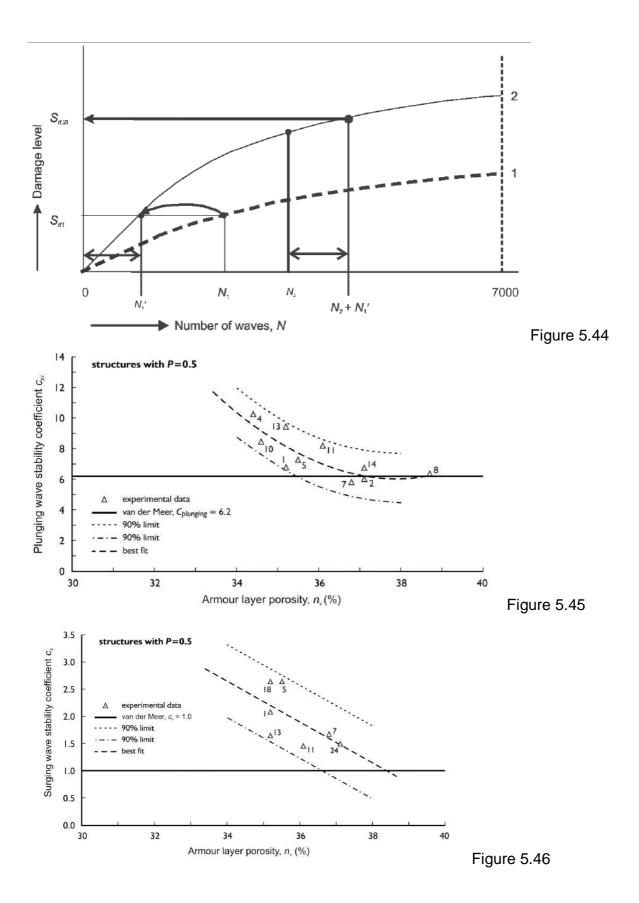
Figure 5.37

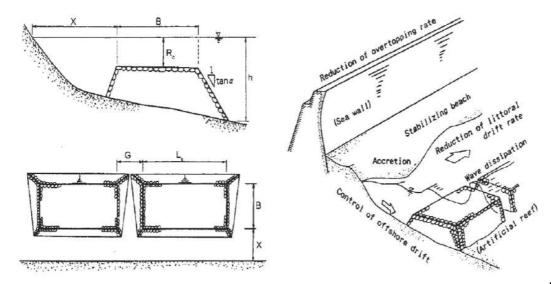


 $D_{n50A}$  = nominal diameter of armour stone

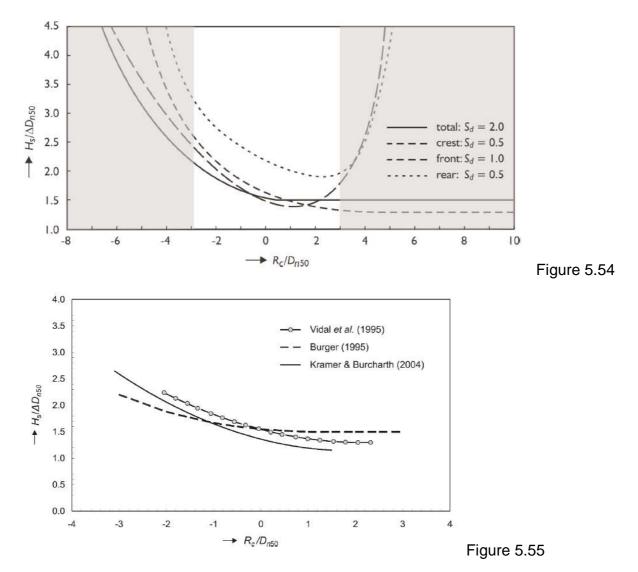
 $D_{n50F}$  = nominal diameter of filter material  $D_{n50C}$  = nominal diameter of core

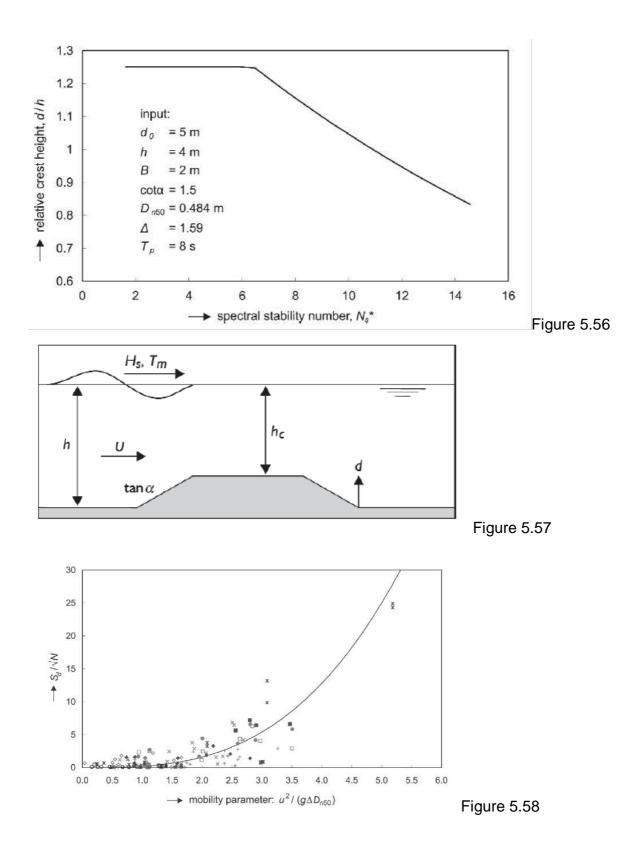












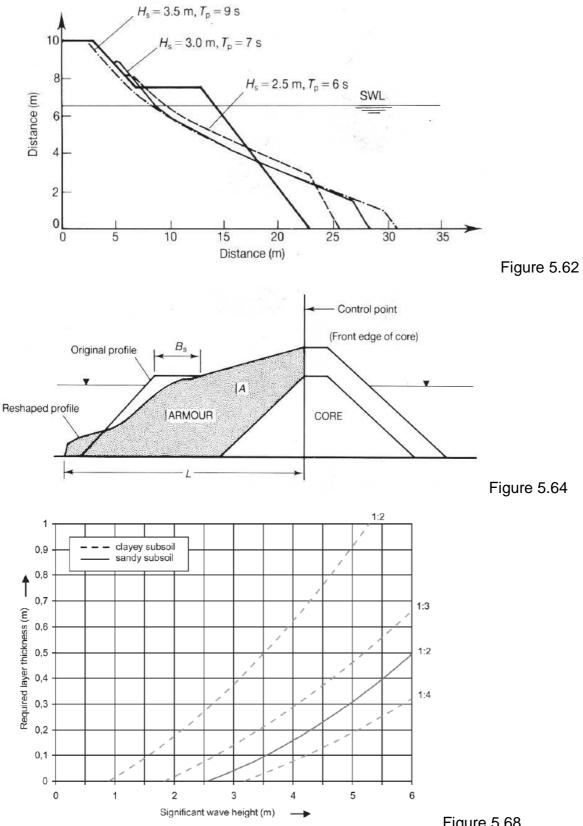
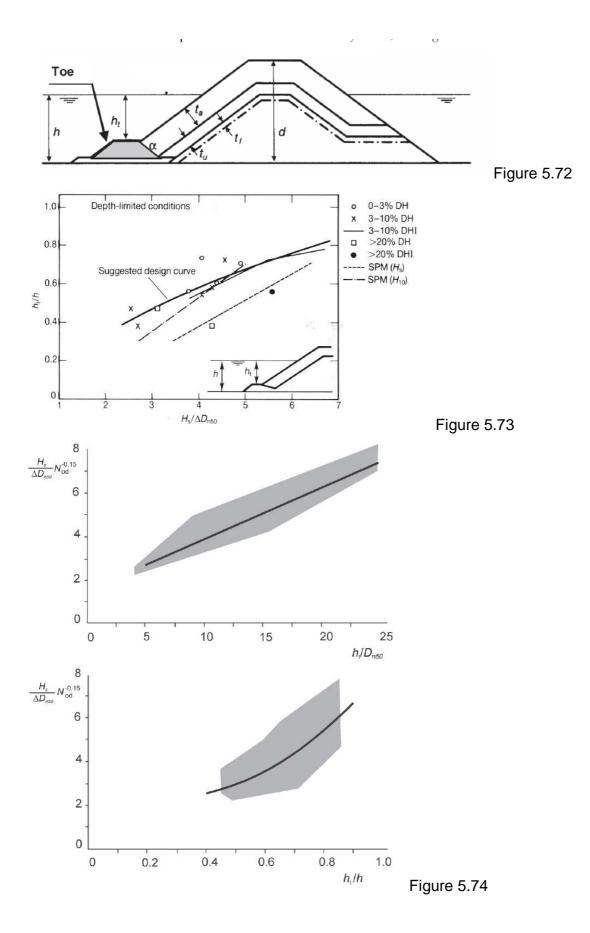


Figure 5.68



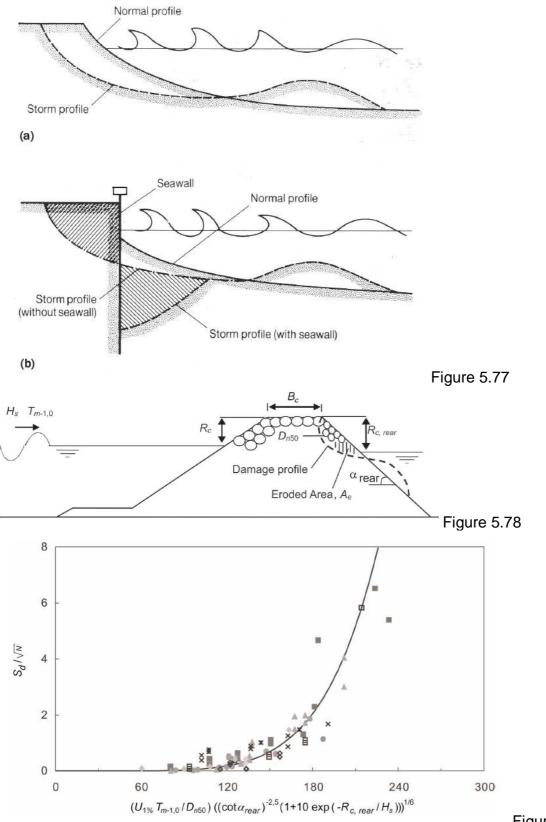
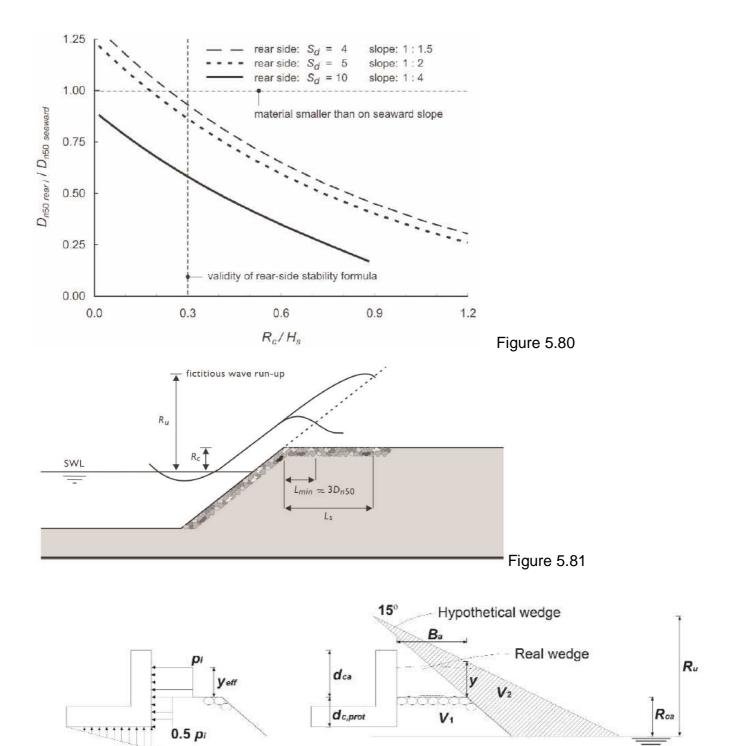
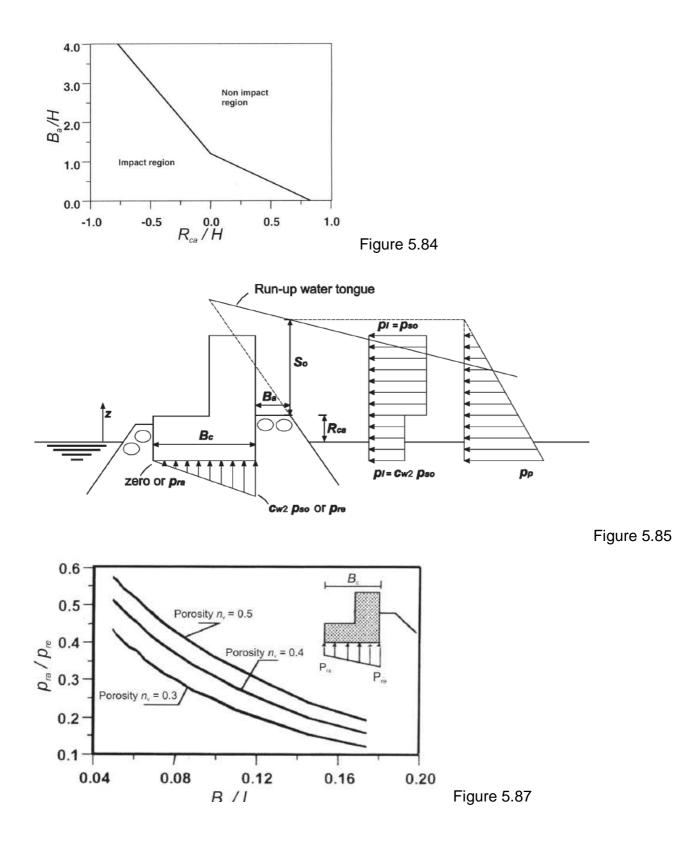


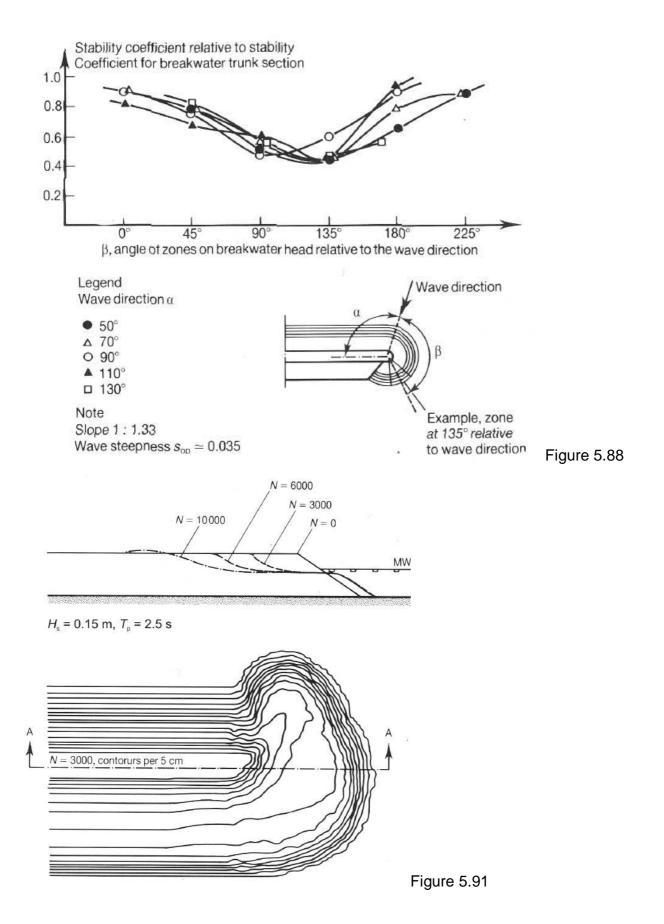
Figure 5.79



pu

Figure 5.83





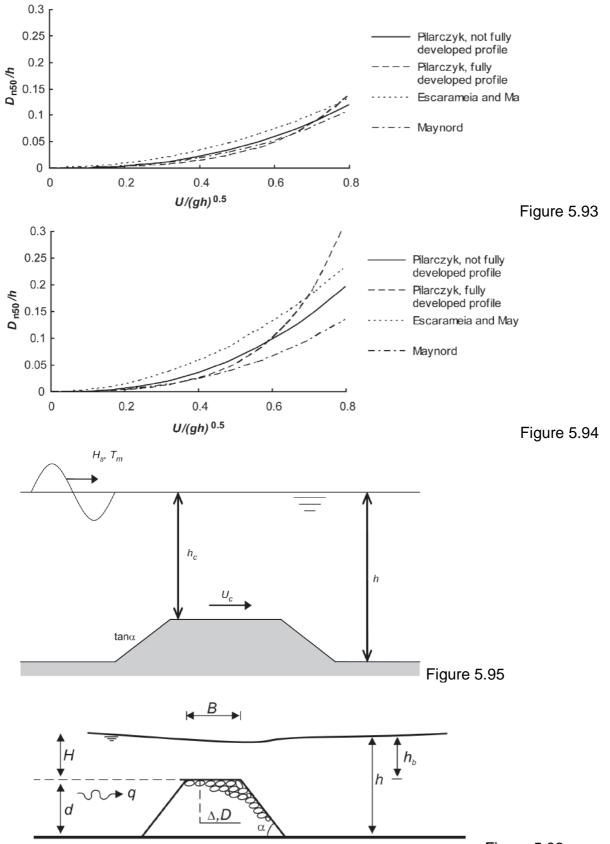
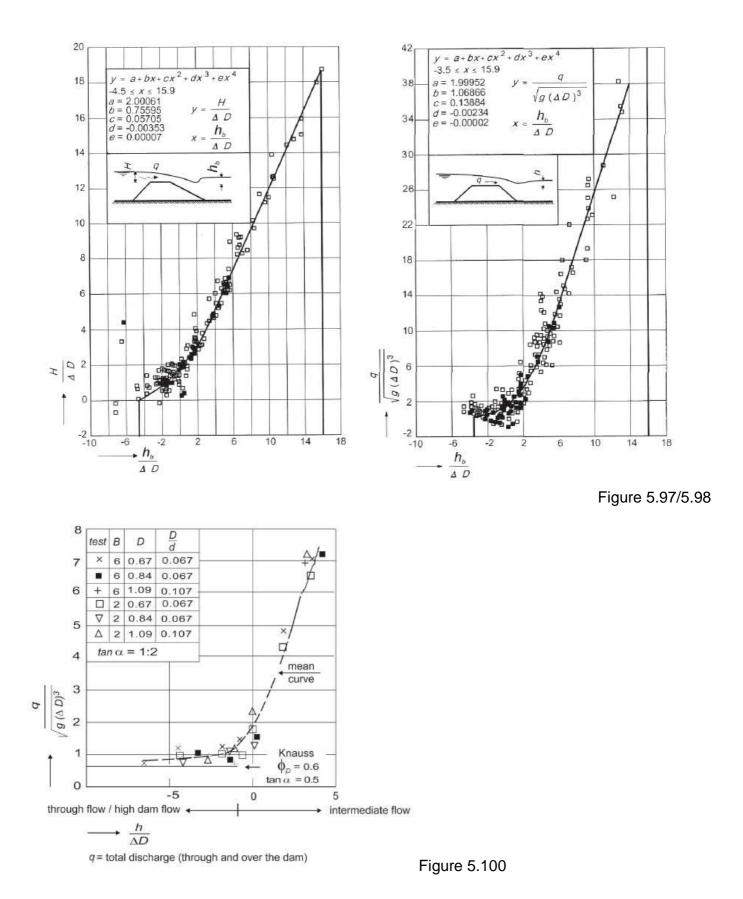
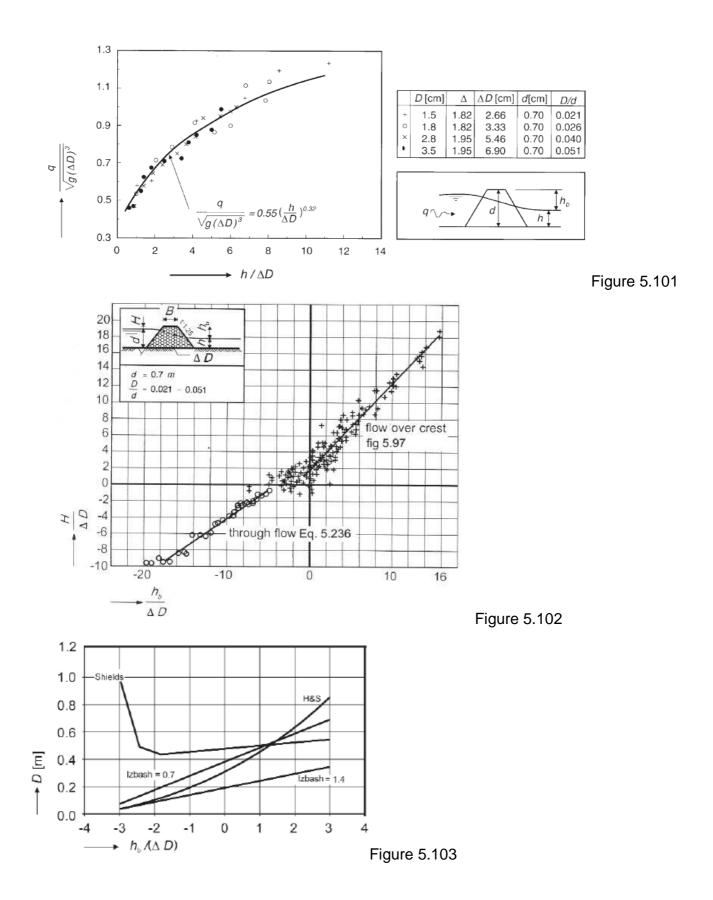
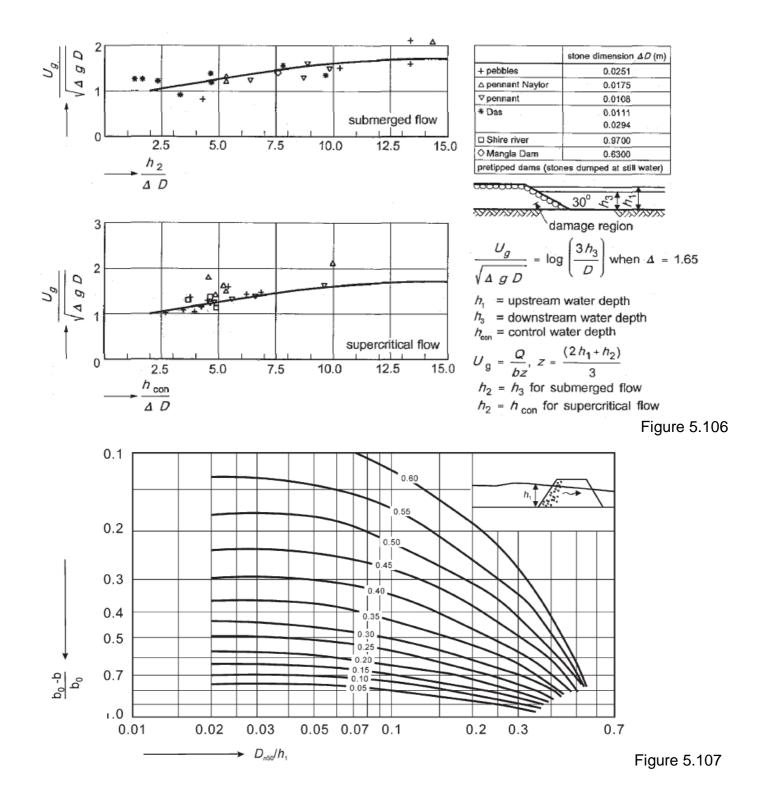


Figure 5.96







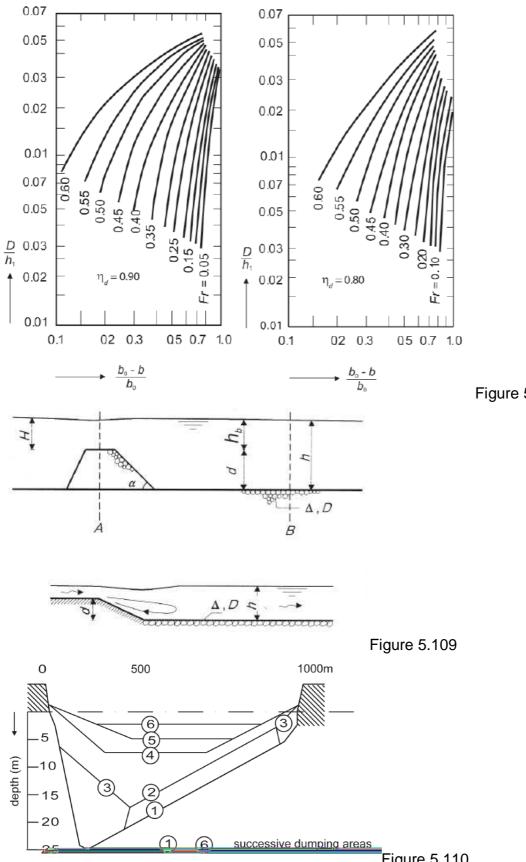
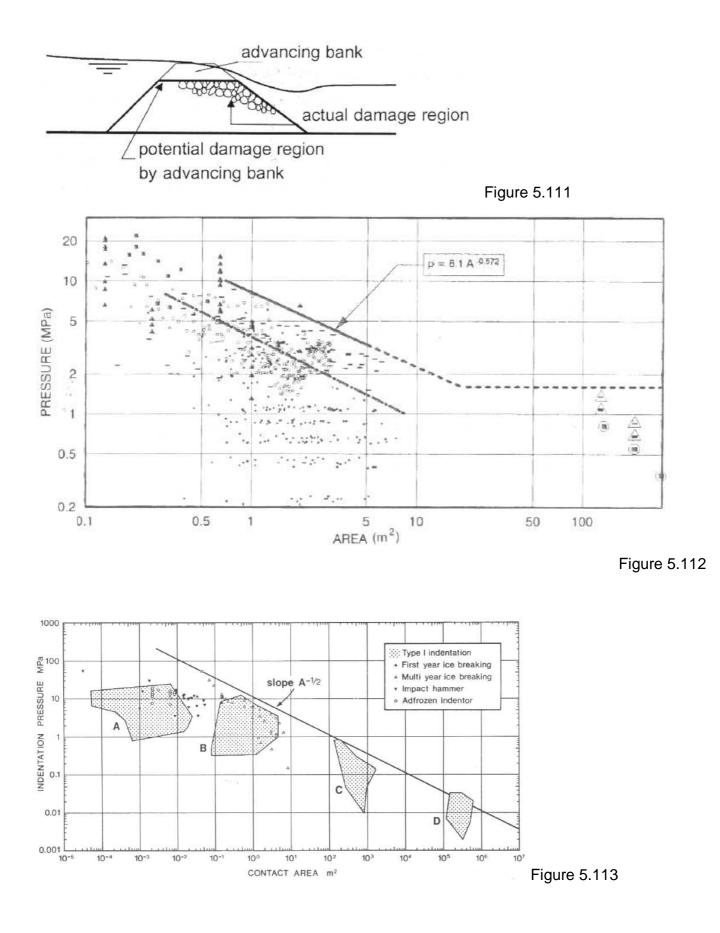


Figure 5.108



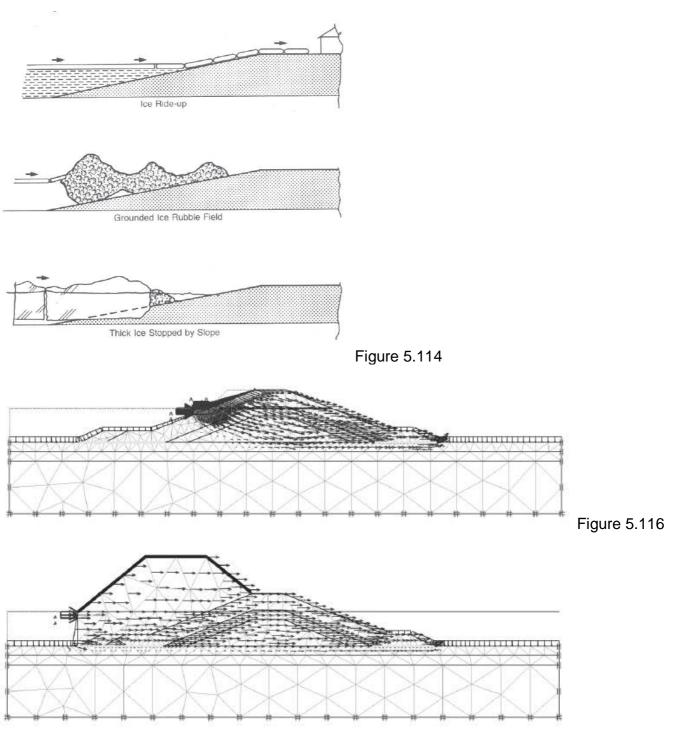


Figure 5.117

TITLE 

## ULS

Erosion of unprotected materials under wave attack Stability of slopes (particularly if top of structure can be above water) Soil stability



Stability of slopes (attention should be paid to execution loads)

ULS

Erosion of unprotected materials under wave attack Stability of slopes Soil stability Toe erosion

and . กกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกกก

ULS Sliding of the armour Stability of slopes Soil stability

ULS

SLS Settlement

nhannanananananhanhannananananan

ULS

Erosion of unprotected outer slope (and inner slope in case of wave overtopping) Stability of slopes Soil stability Toe erosion

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ULS Stability of slopes Soil stability

SLS Settlement Deformation

ULS Erosion of the armour and filter layers Stability of slopes Soil stability

Figure 5.123

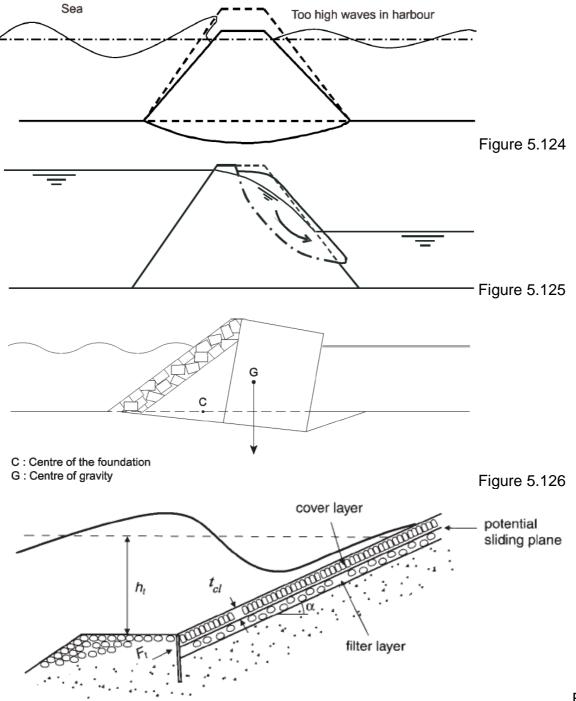


Figure 5.127

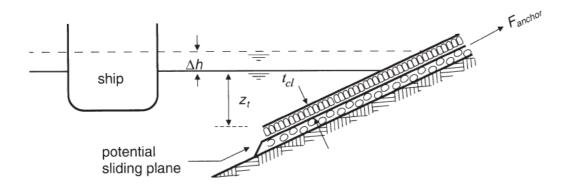


Figure 5.128

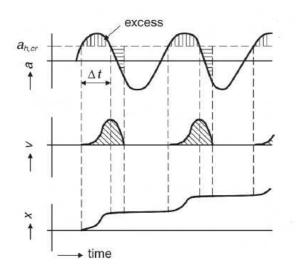


Figure 5.132

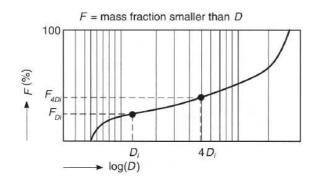
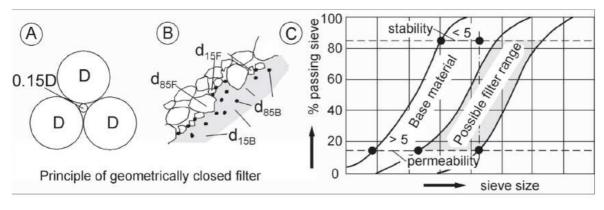


Figure 5.133





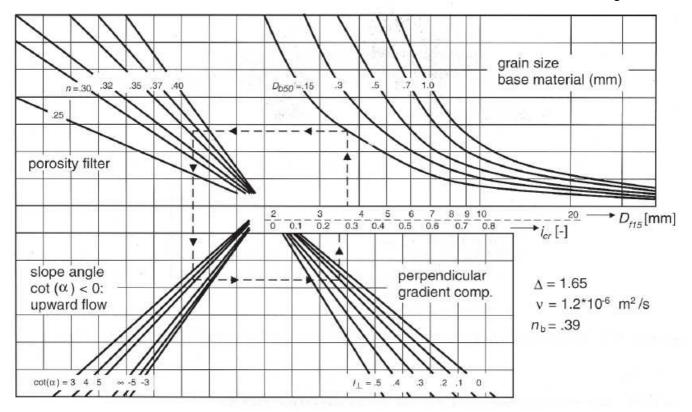
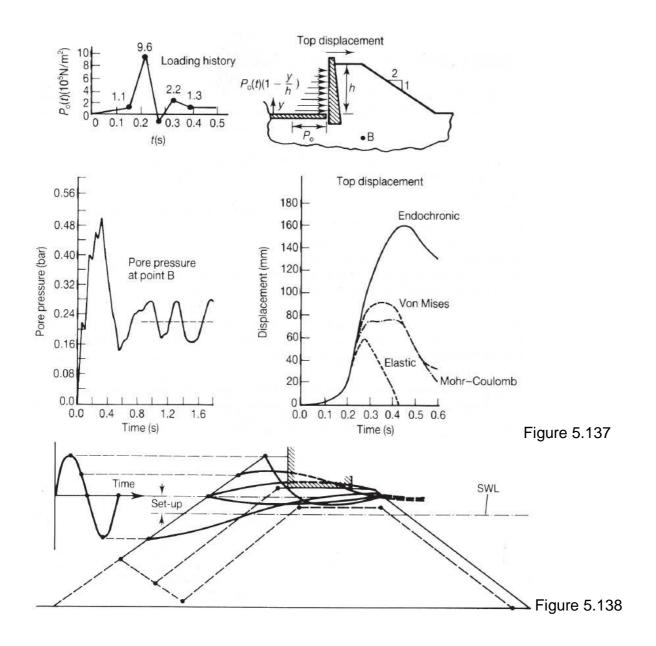


Figure 5.135



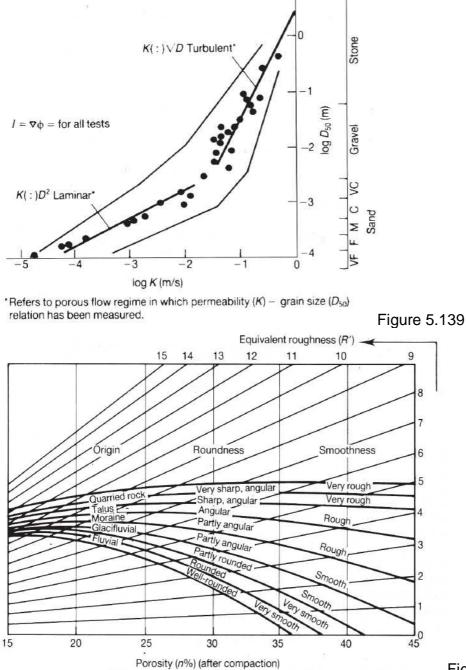
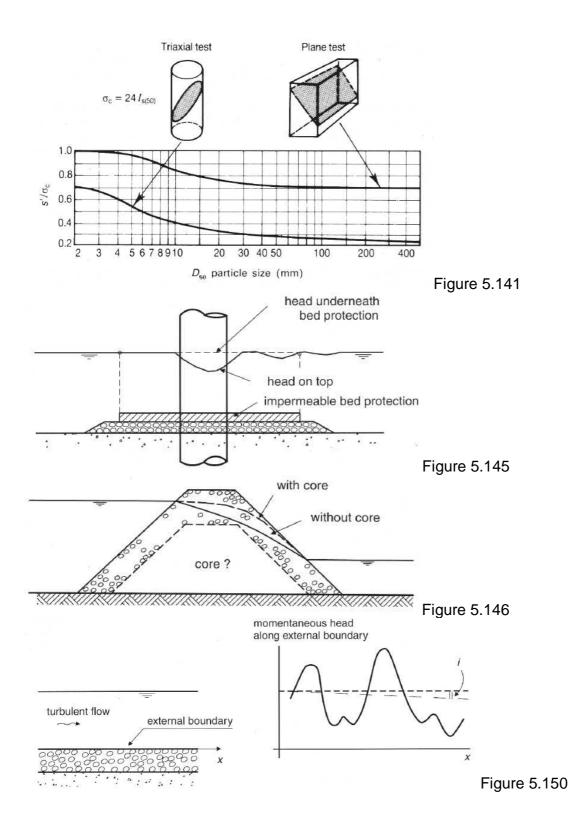
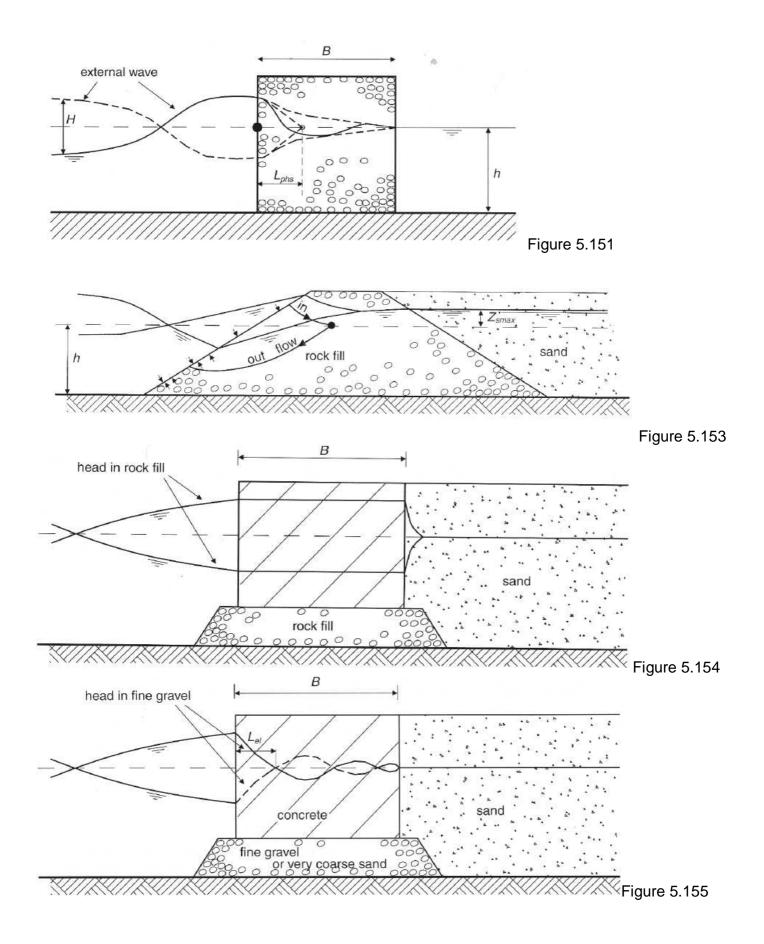


Figure 5.140





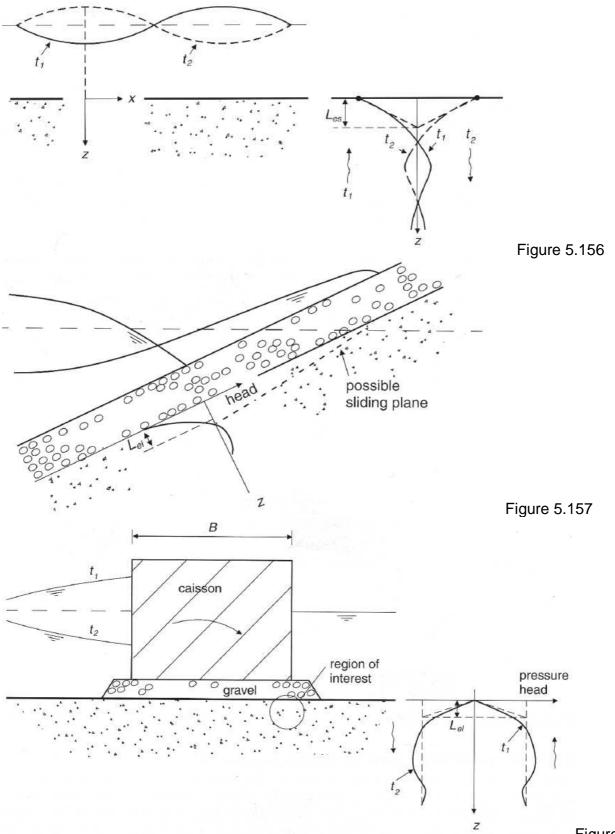
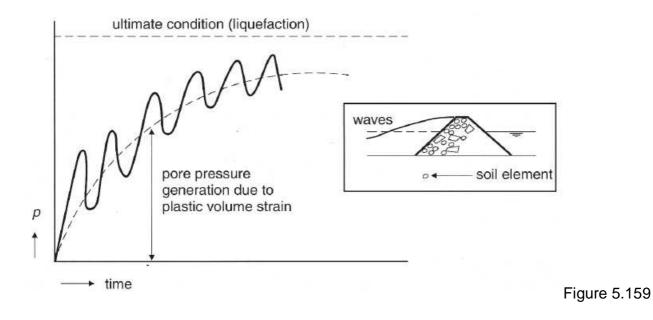


Figure 5.158



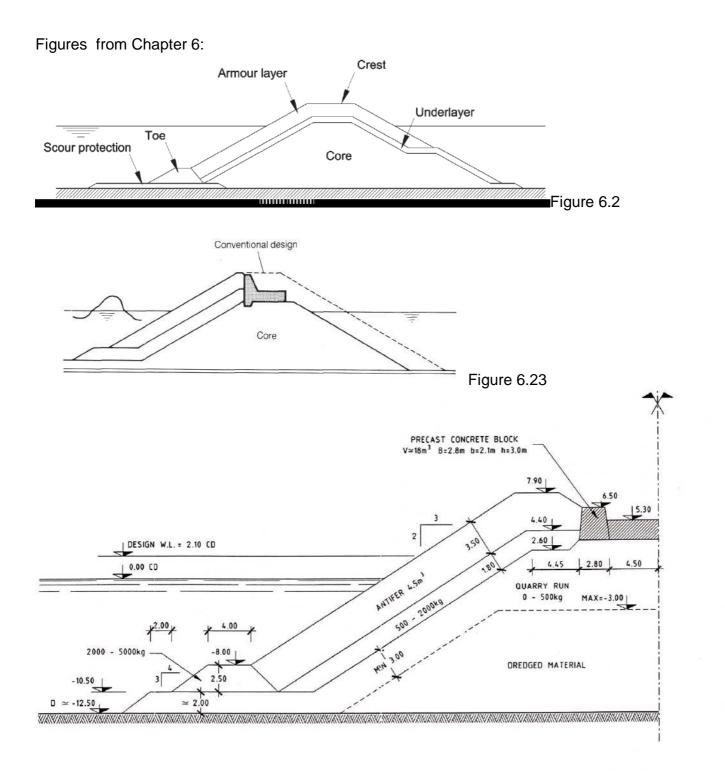
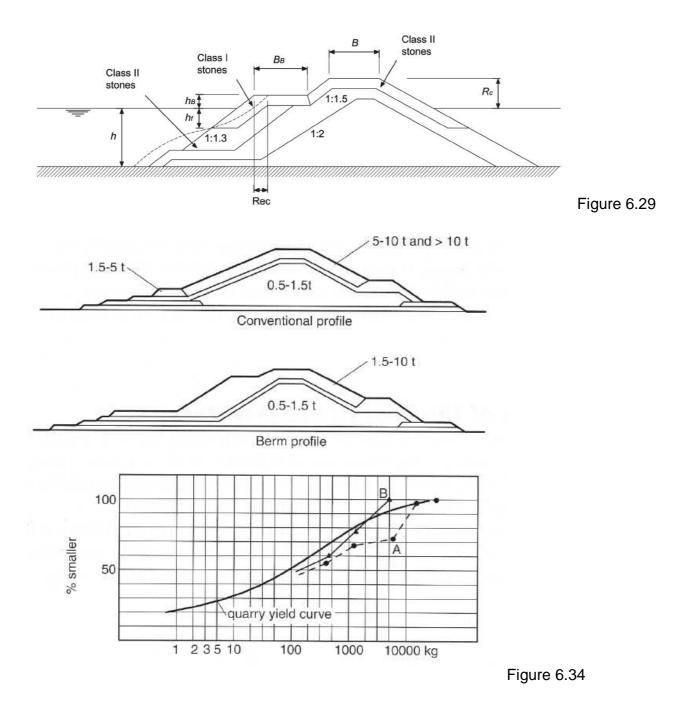


Figure 6.27



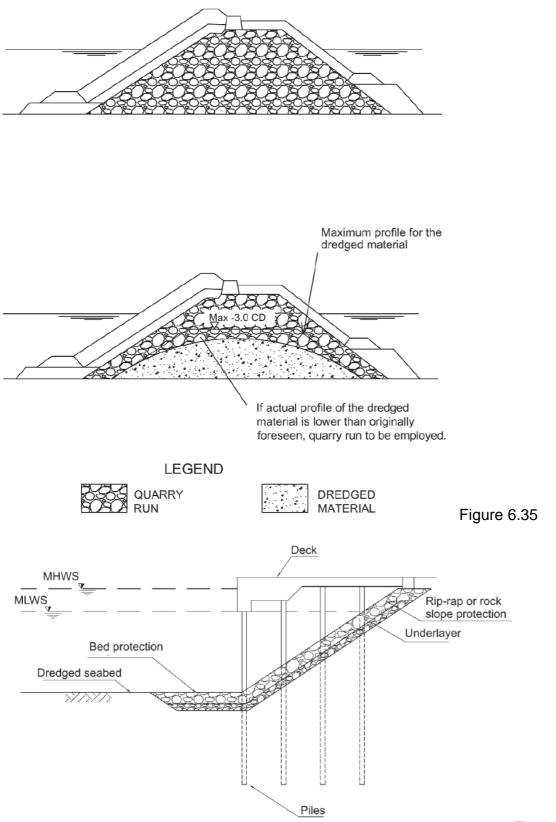


Figure 6.38

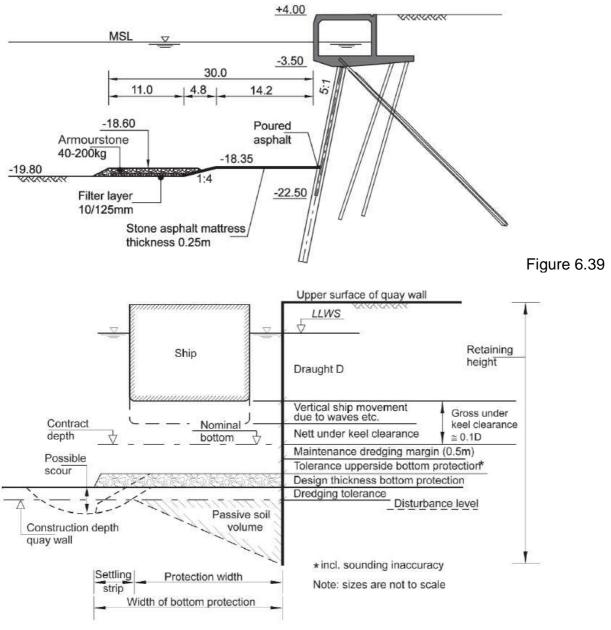
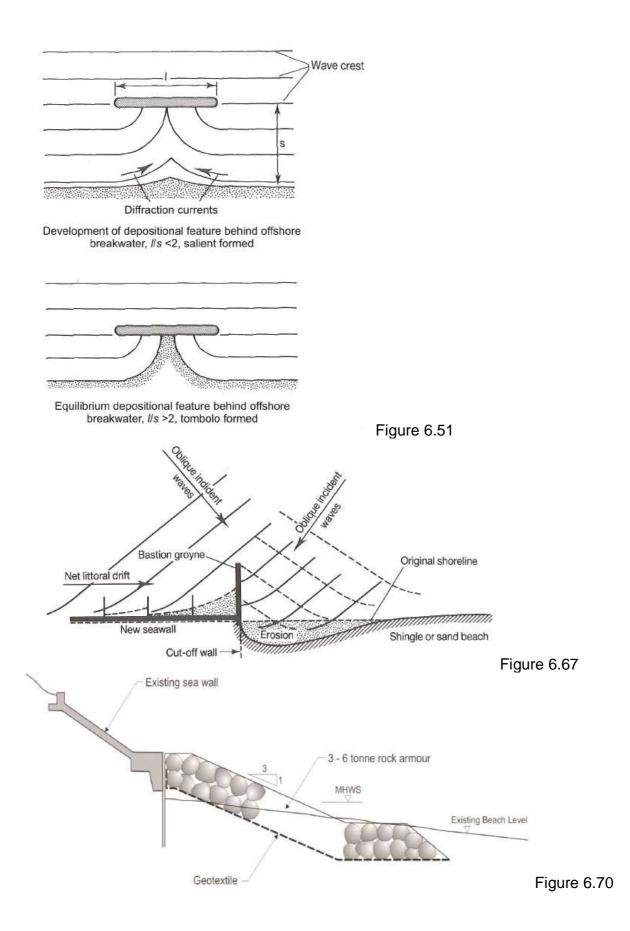
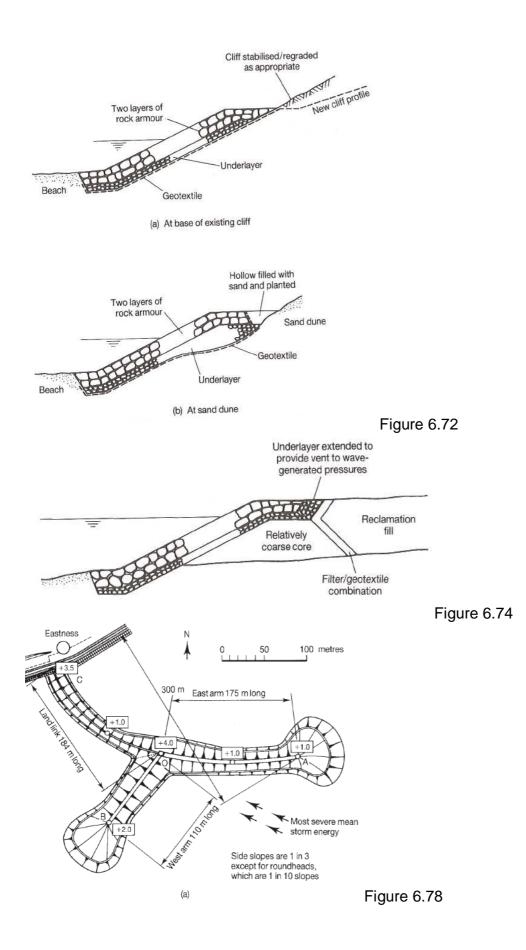
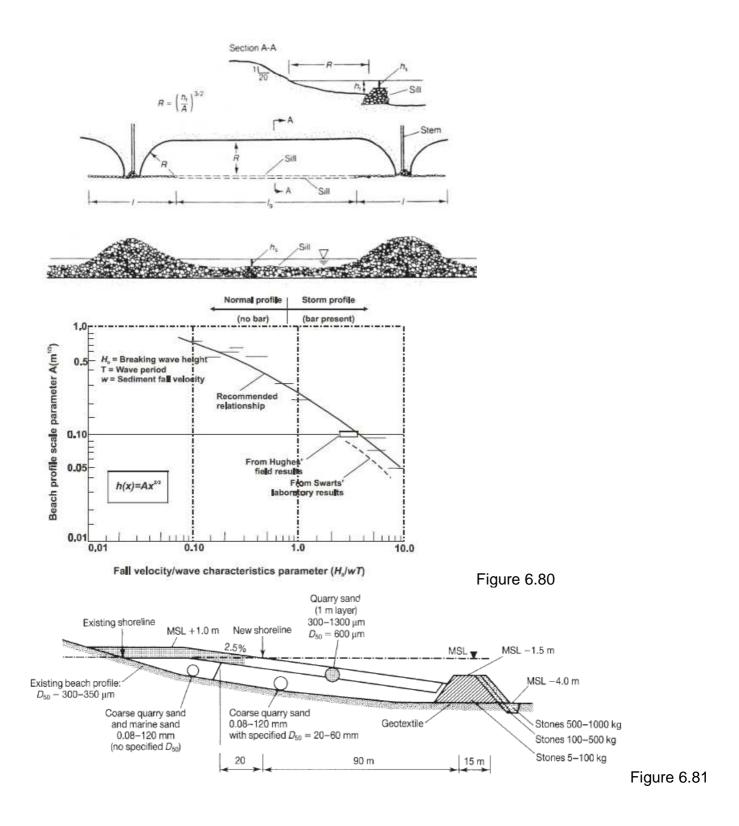
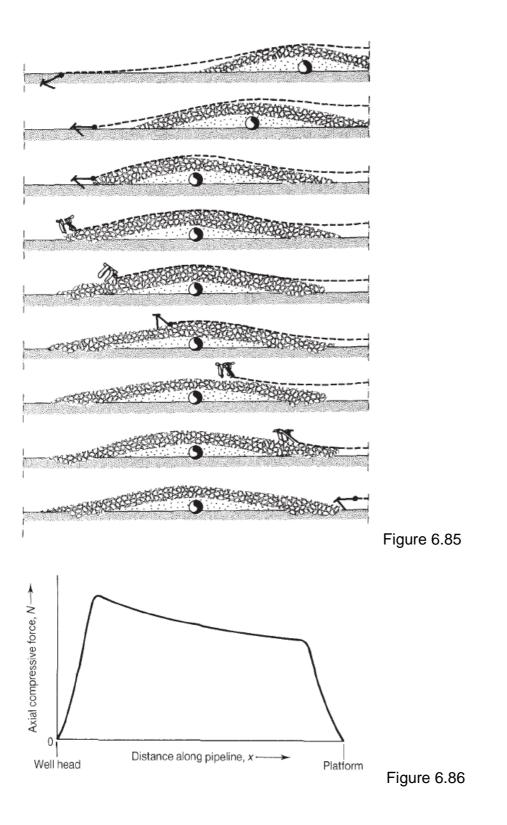


Figure 6.40









## Figures from Chapter 7:

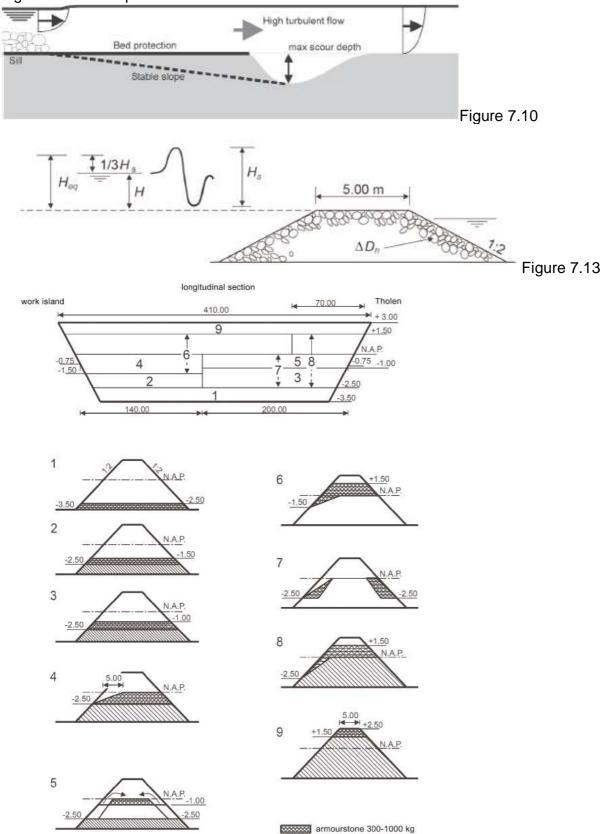
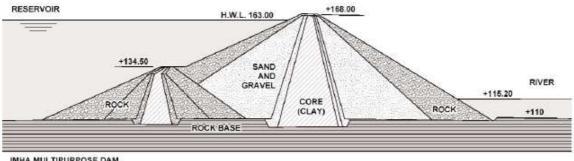
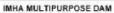


Figure 7.14







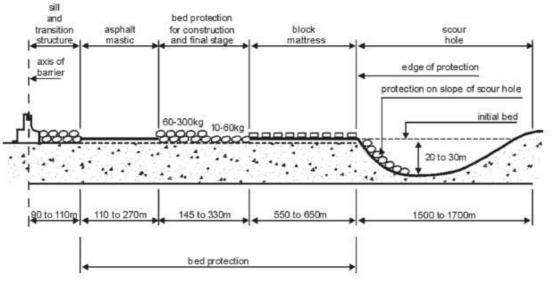
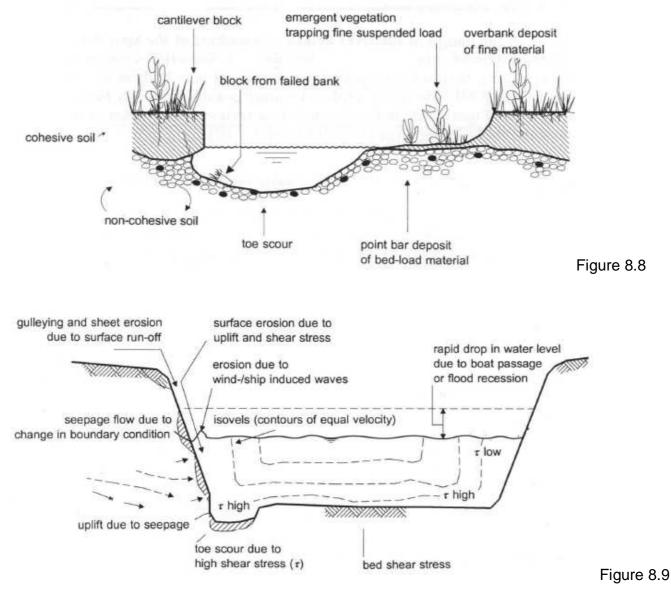


Figure 7.27

## Figures of Chapter 8:



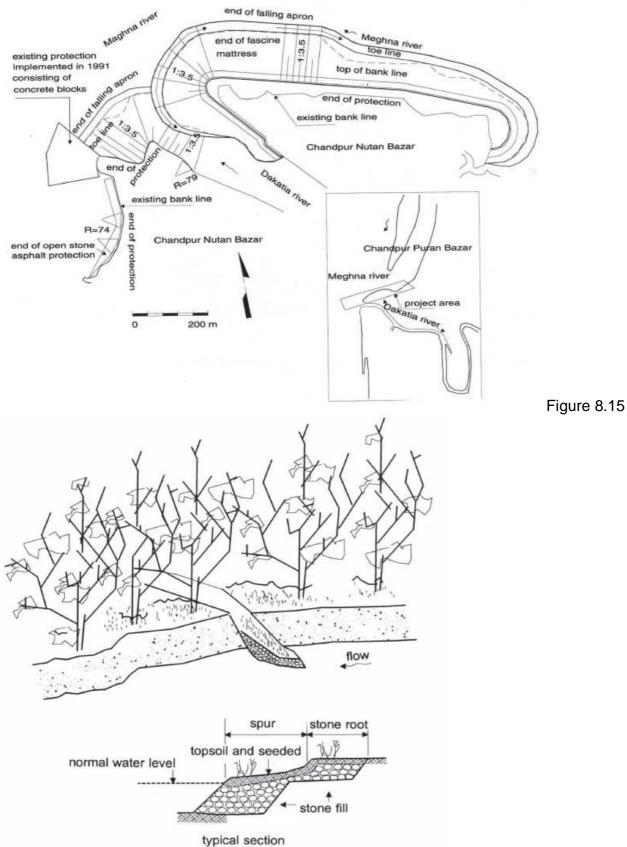
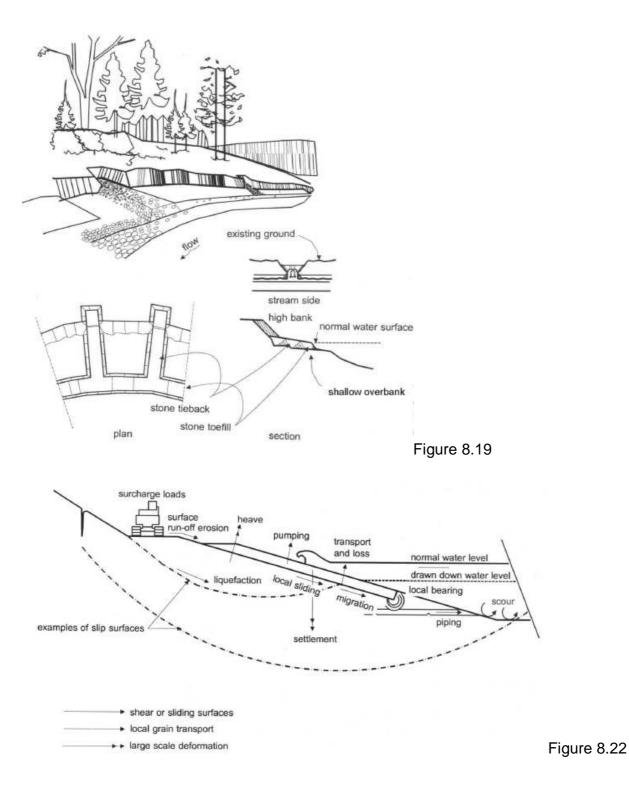
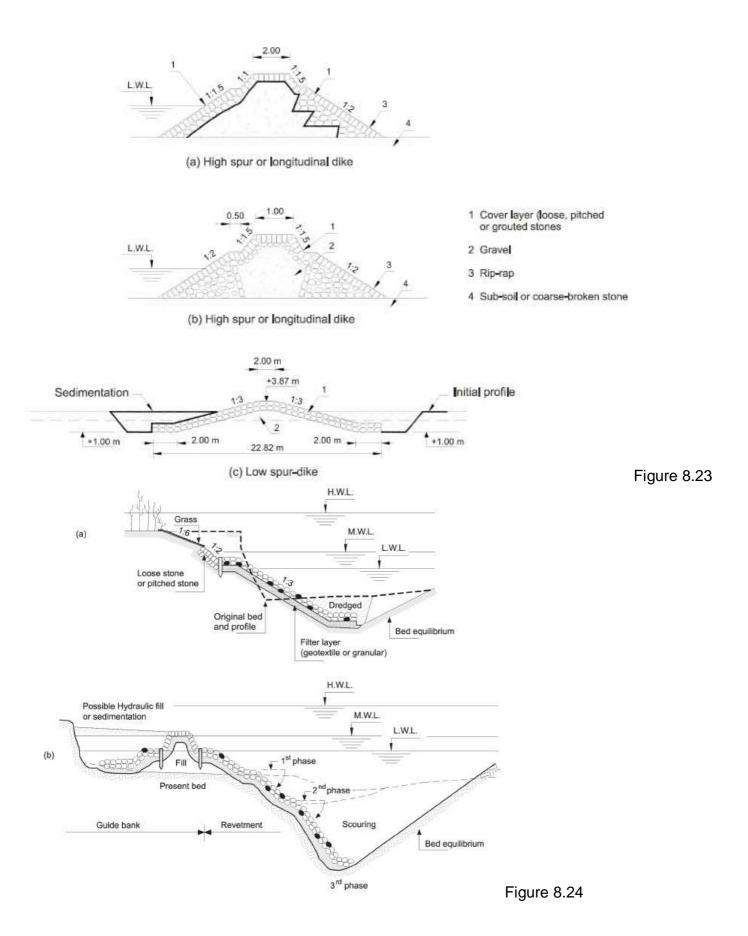


Figure 8.16





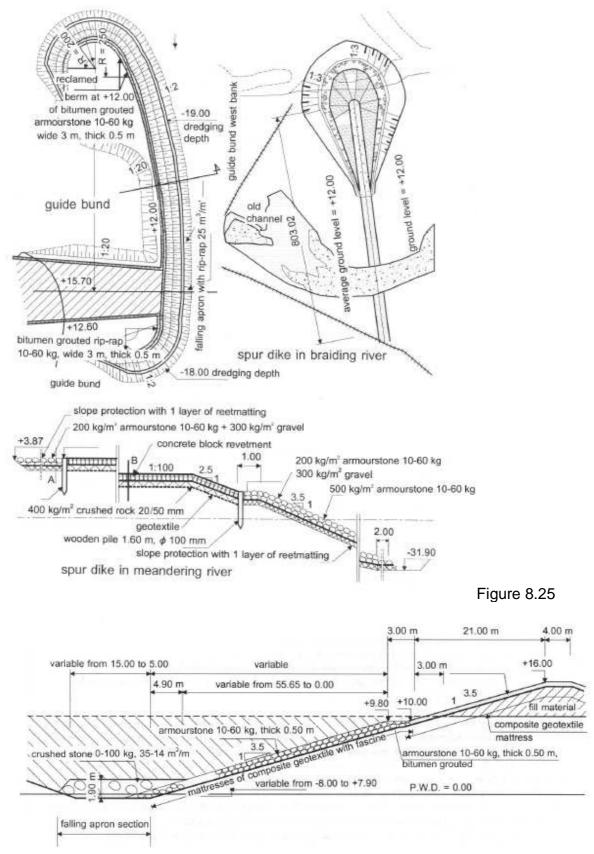
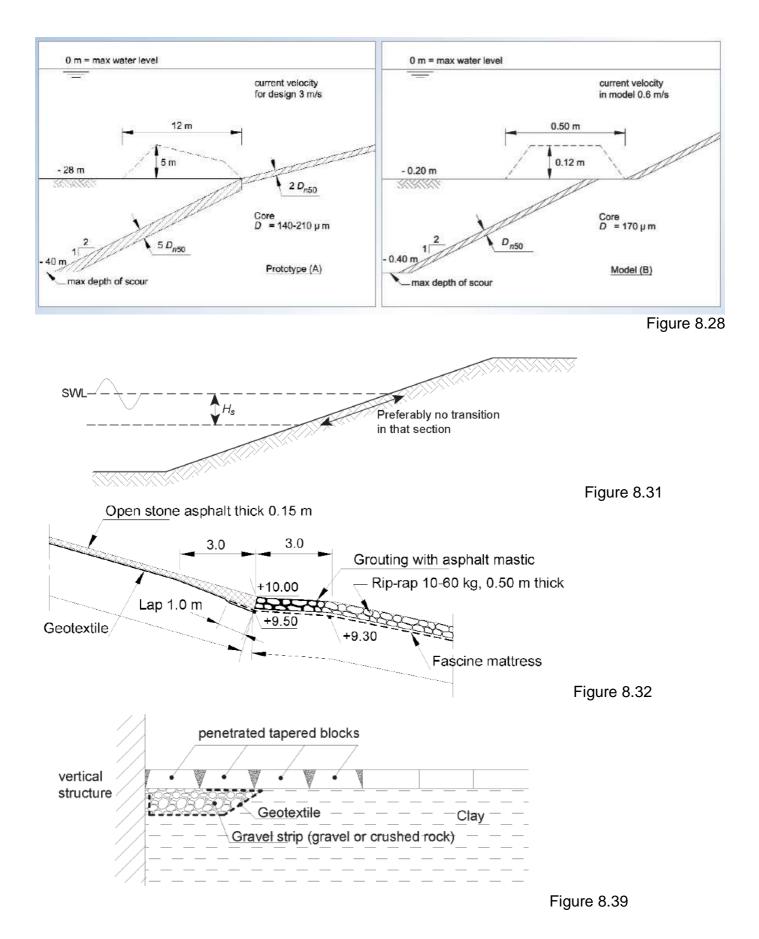


Figure 8.27



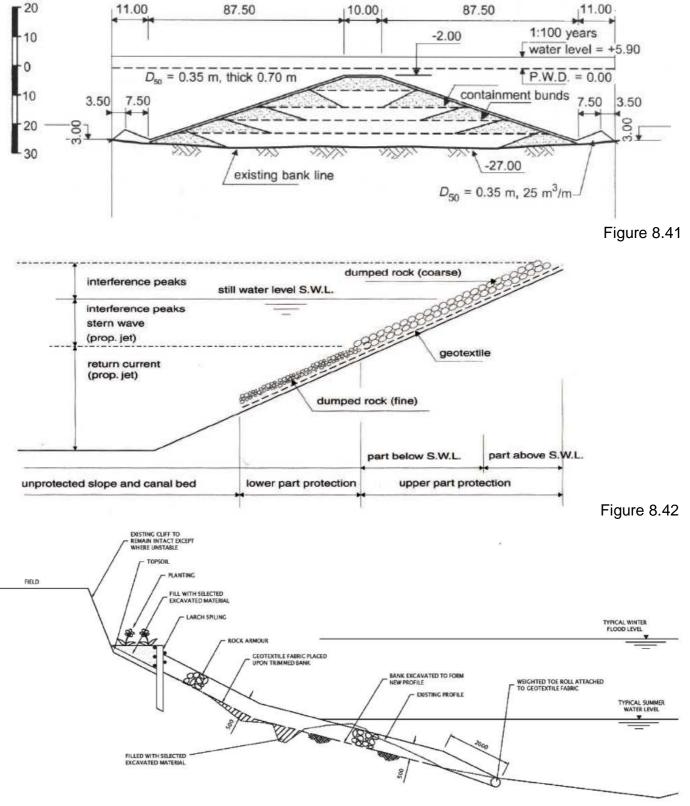


Figure 8.45

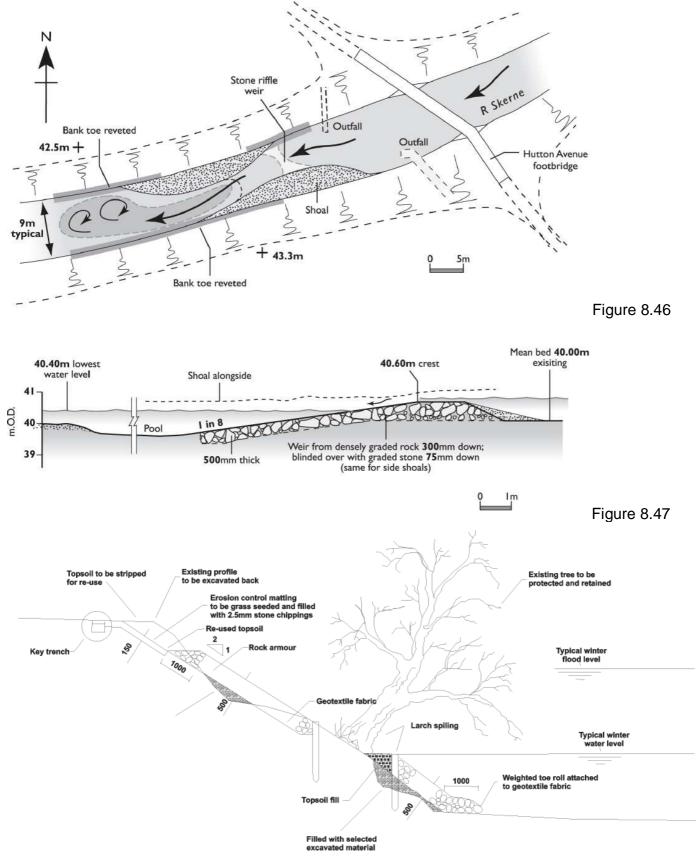
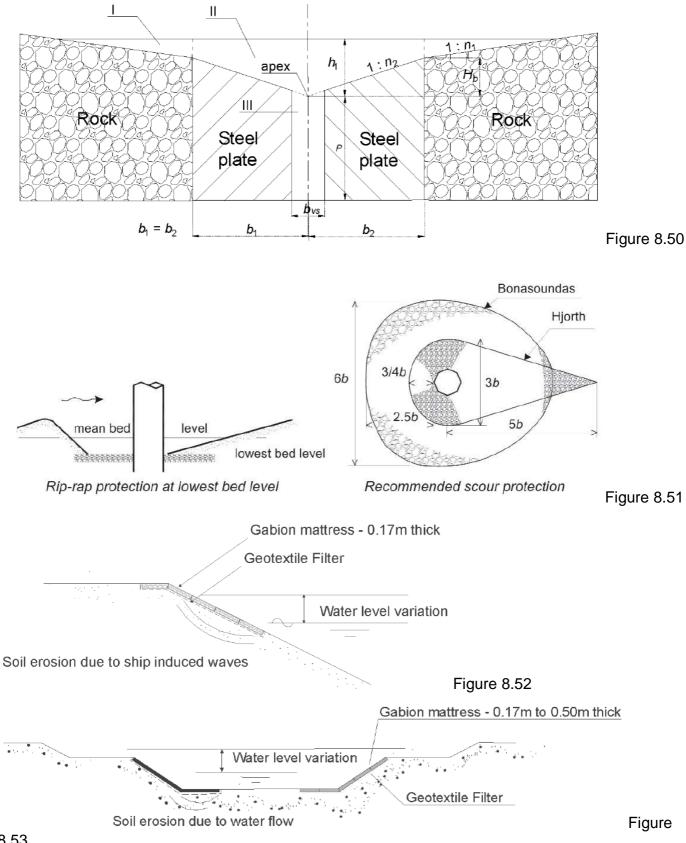
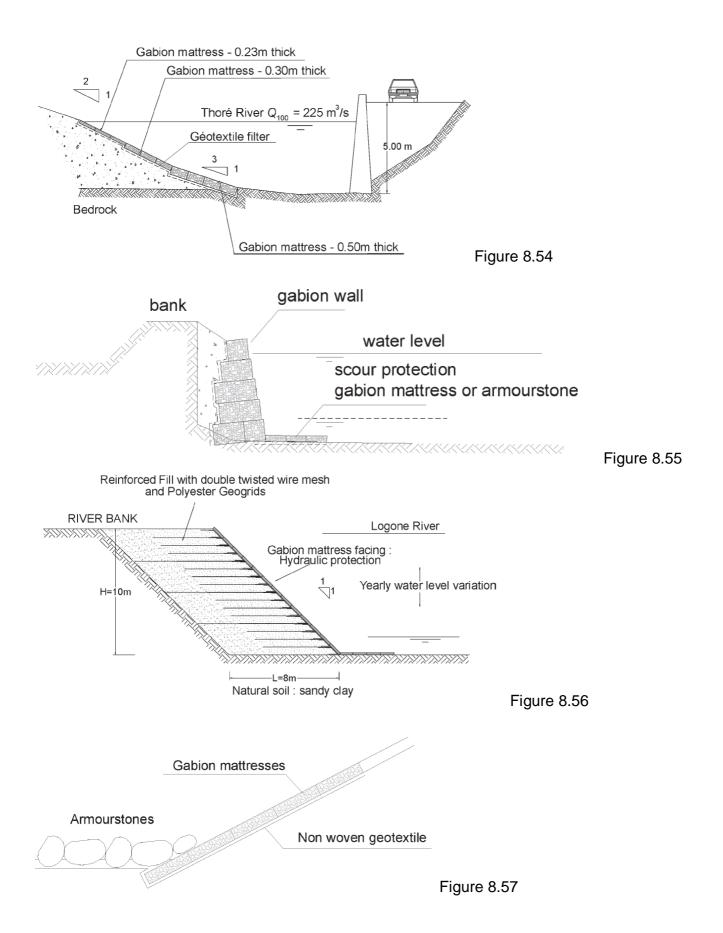


Figure 8.48



8.53



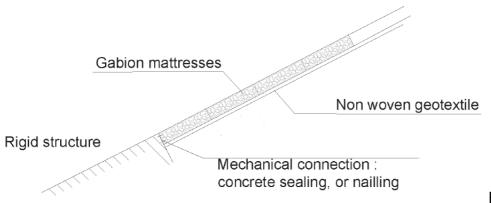


Figure 8.58

## Figures of Chapter 9:

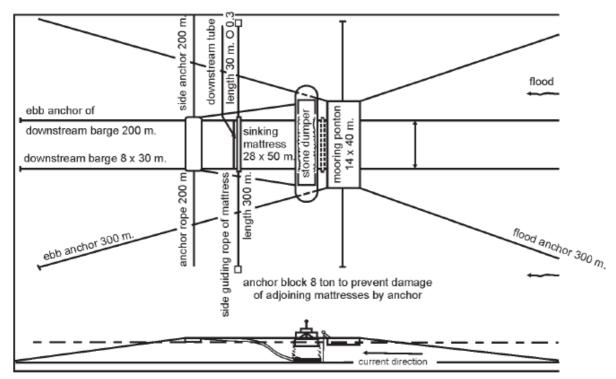
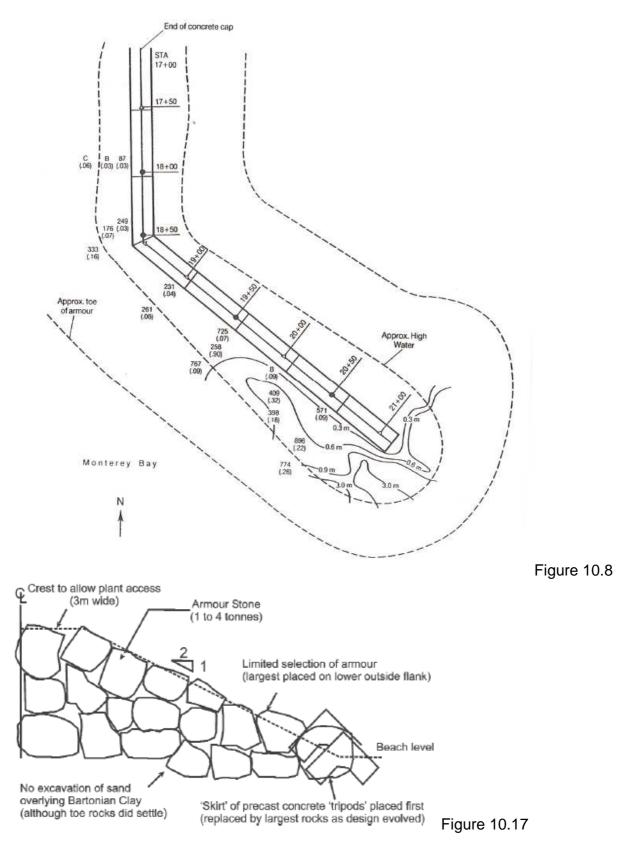
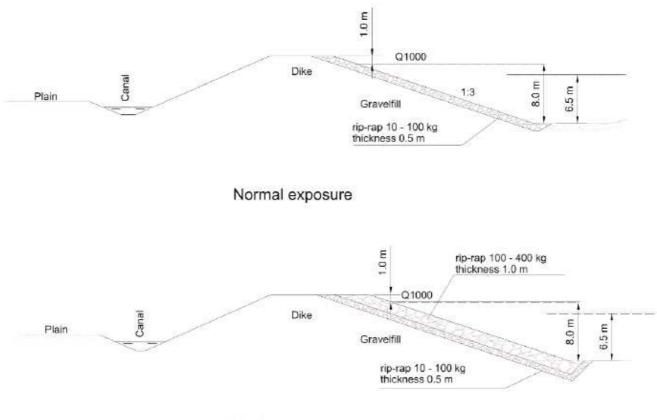


Figure 9.44

Figures of Chapter 10:





High exposure

Figure 10.20