20.4.3

The unsafe edges are NOT in the MST
Lemma 20.6.

If $e$ is an unsafe edge then no MST of $G$ contains $e$. 

$G' \cap$ \text{ with all edges of prime } \geq c(e) \text{ removed}
Lemma 20.6.

If e is an unsafe edge then no MST of G contains e.

Proof.
Exercise.

Note: Cut and Cycle properties hold even when edge costs are not distinct. Safe and unsafe definitions do not rely on distinct cost assumption.
THE END

... 

(for now)