

Advanced Snow Travel



Bo White and Boris Lukanov

Gear...



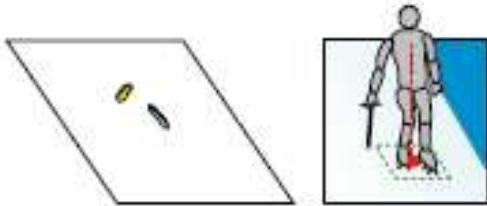
..Bringing it all together..



Technique (Basics)

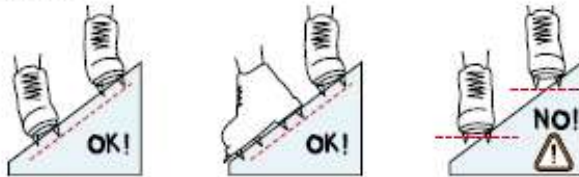
B_Movement

Position when standing (stopped).



A_Basic crampon techniques

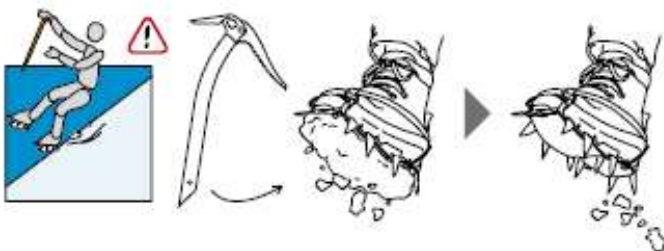
All points in the ice.



Feet spread apart.



Beware of snow accumulating under the crampons.



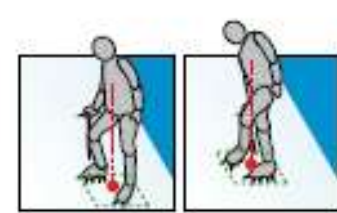
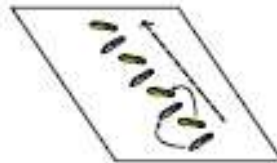
Technique (ascending)



Ascending medium to steep angle slopes.



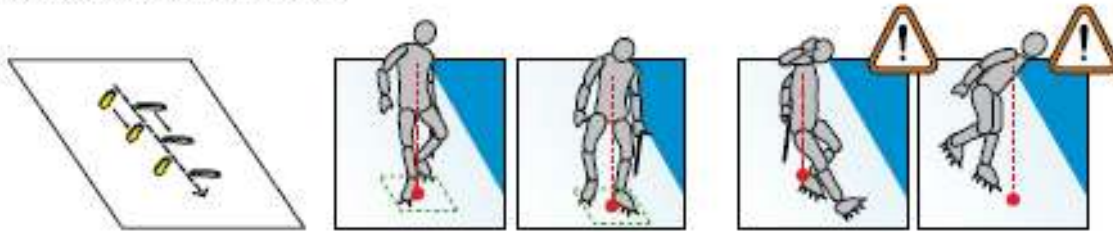
Ascending low to medium angle slopes.



Matt Oden and Bo White, l'envers de aigles

Technique (descending)

Descending low to medium angle slopes.



Descending medium to steep angle slopes.



Fast Descents

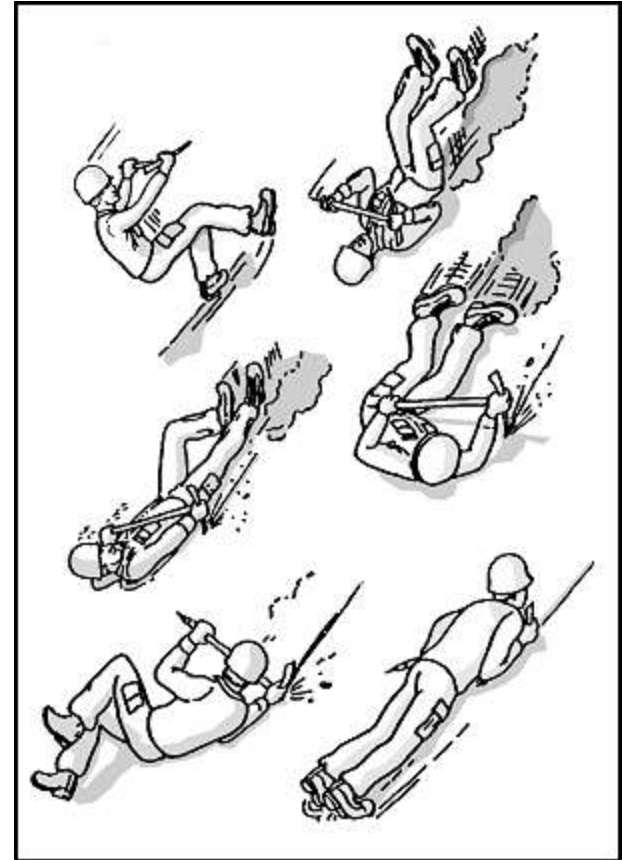


Noah Howell, Wasatch Backcountry, Utah.
JAY BEYER



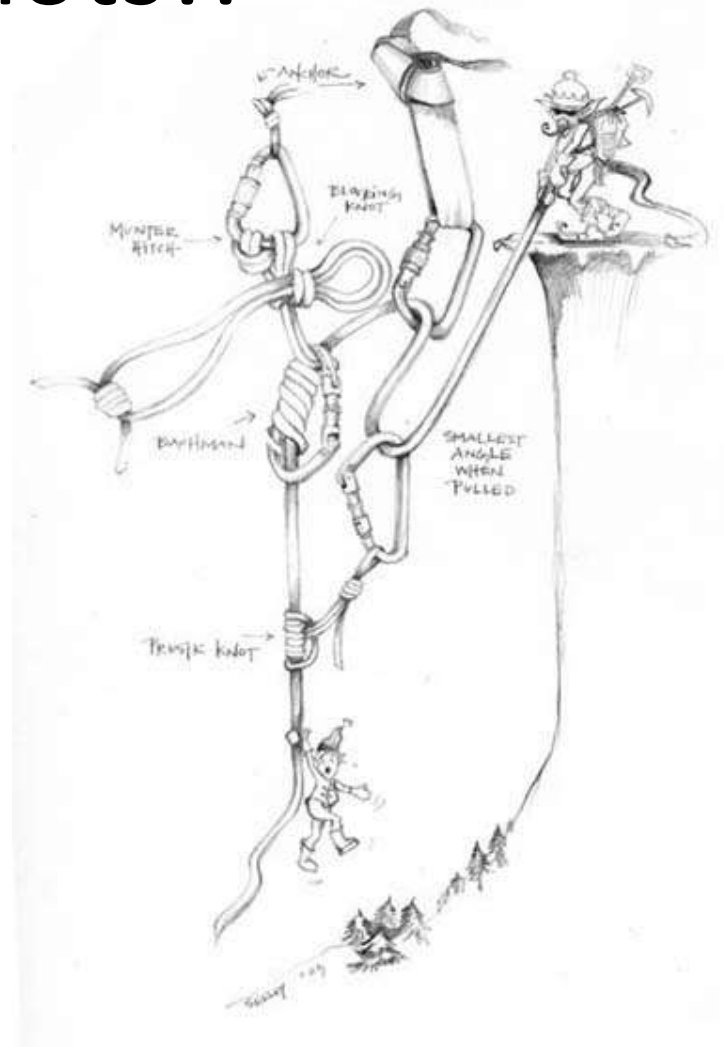
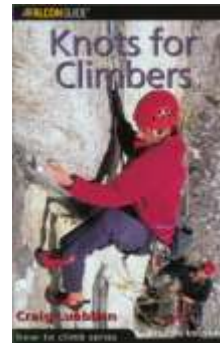
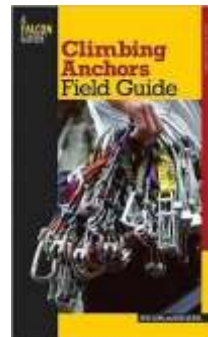
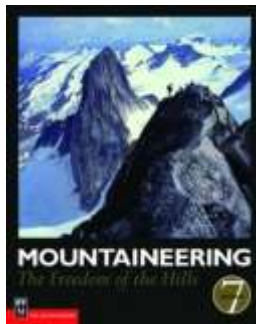
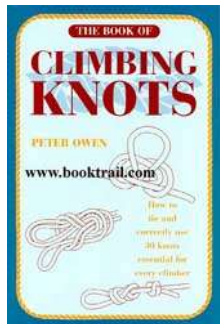
Self Arrest Cont...

- [http://www.youtube.com/watch?v=LM3xLsh
mNnk](http://www.youtube.com/watch?v=LM3xLsh
mNnk)



Know Your Knots!!

Book Resources:



Online Resources:

<http://www.animatedknots.com/indexclimbing.php?LogoImage=LogoGrog.jpg&Website=www.animatedknots.com>

http://www.indoorclimbing.com/Climbing_Knots.html

Belay Technique



Fig. 16-36.
Carabiner-ice ax belay:
plant ax, stand on runner,
and run rope up through
carabiner. Inset shows
runner and carabiner
attachment to ice ax.

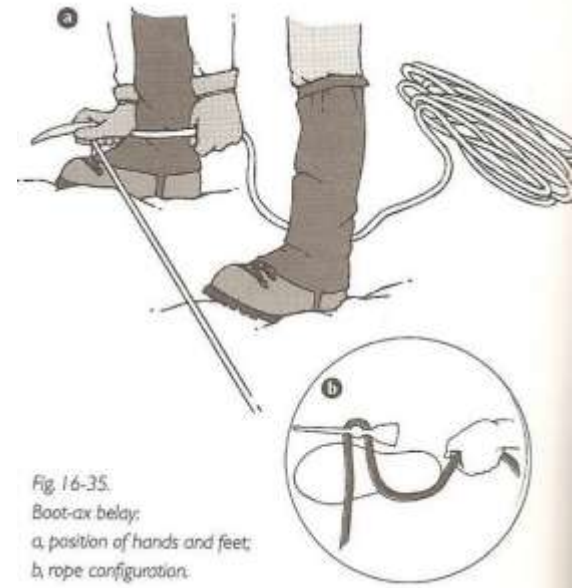


Fig. 16-35.
Boot-ax belay:
a, position of hands and feet;
b, rope configuration.



Fig. 16-37.
Sitting hip belay.

Snow Anchors and Snow Terrain

- Pickets
- Deadman
- Snow bollards
- Flukes
- Multiple snow anchors
- Terrain considerations and features

Pickets

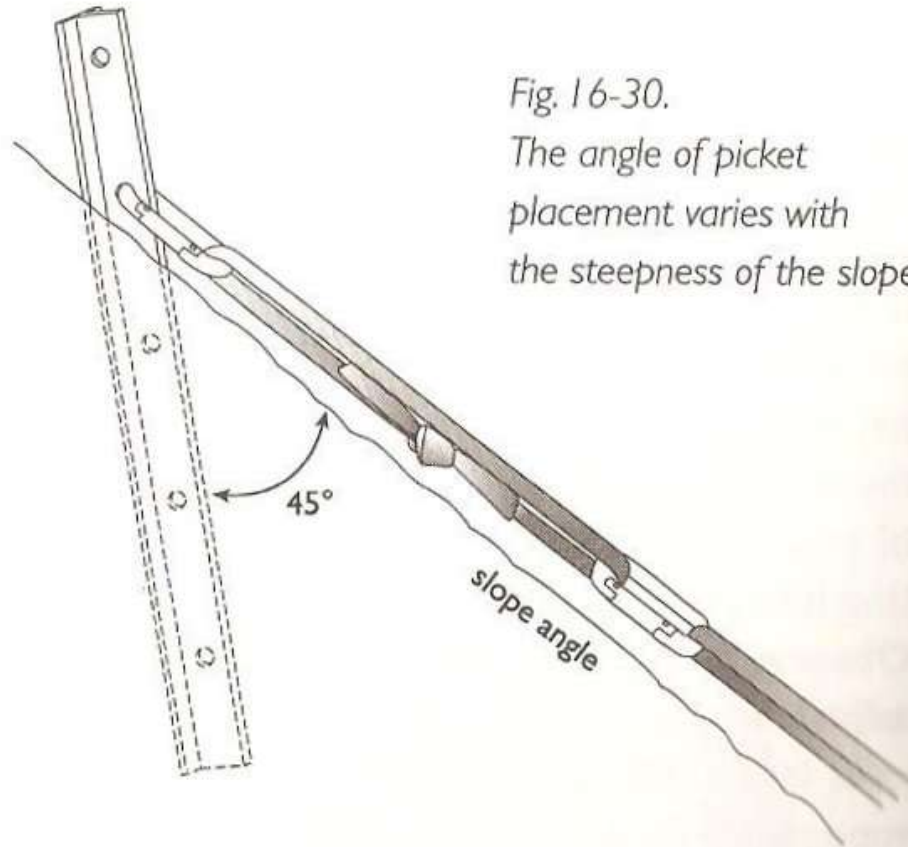
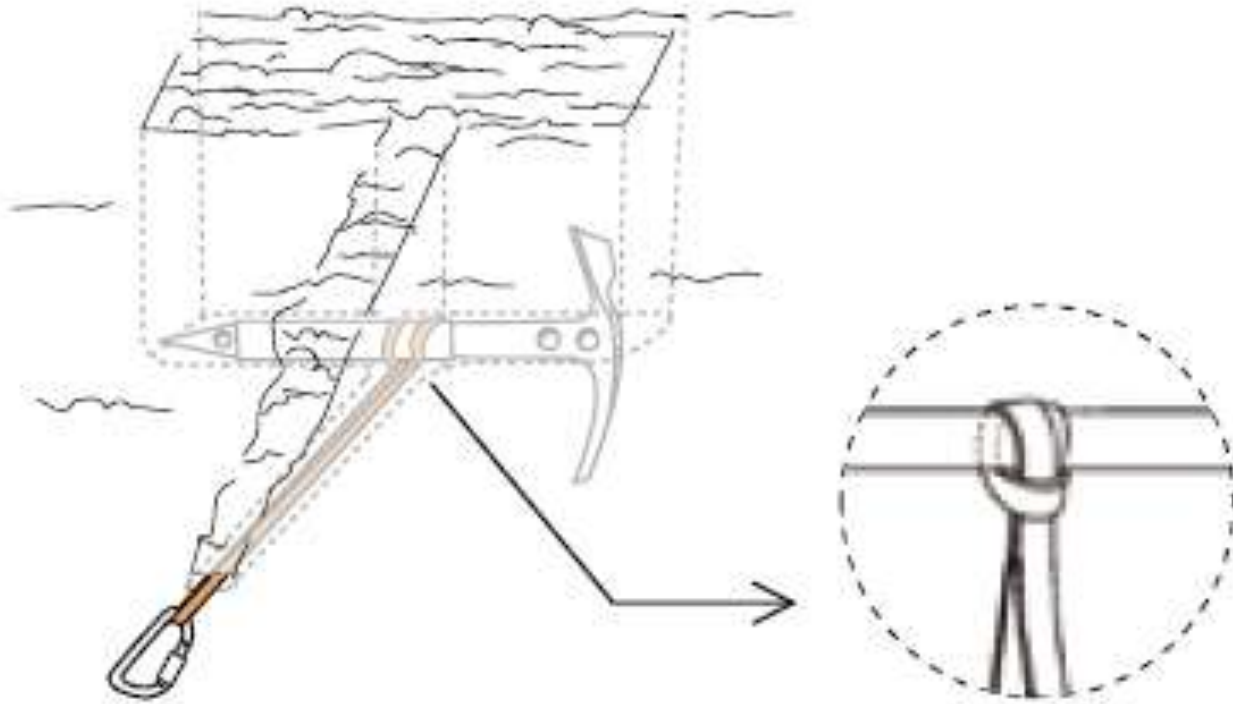


Fig. 16-30.

The angle of picket placement varies with the steepness of the slope.

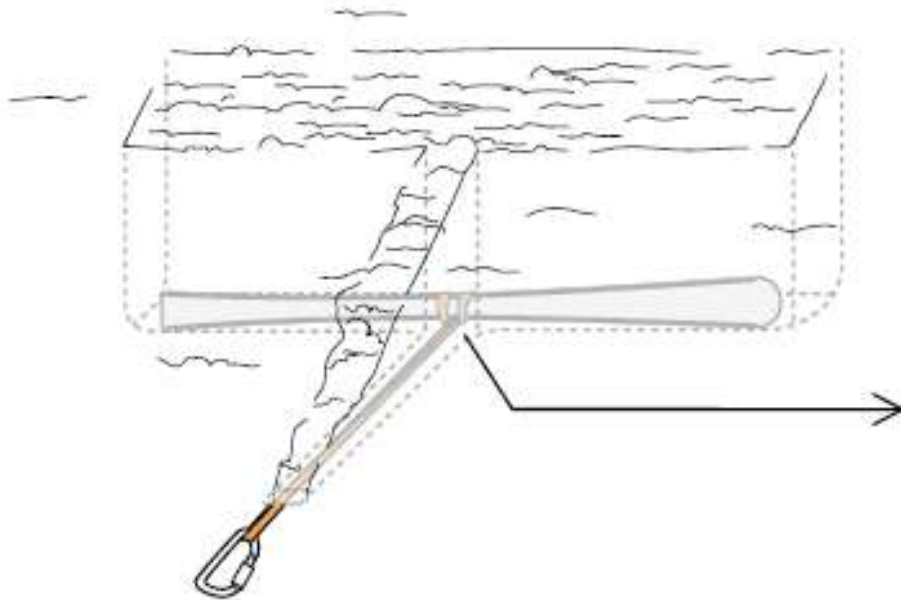
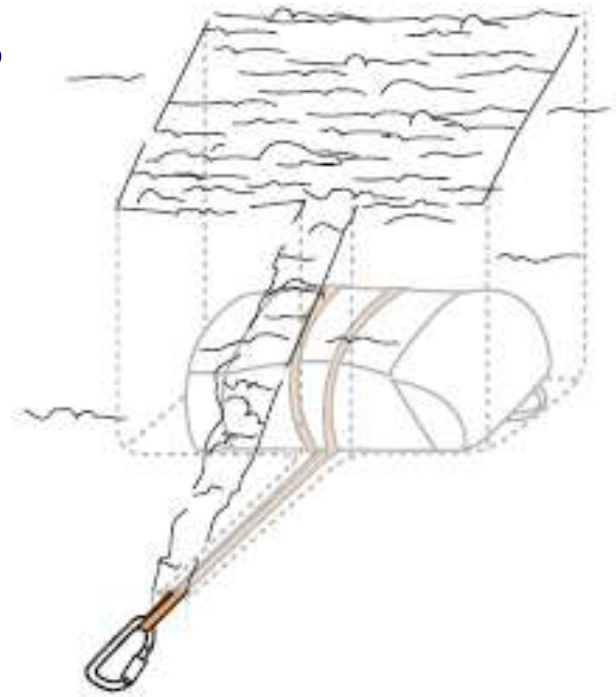
Deadman



Strength depends on snow conditions and area of object buried

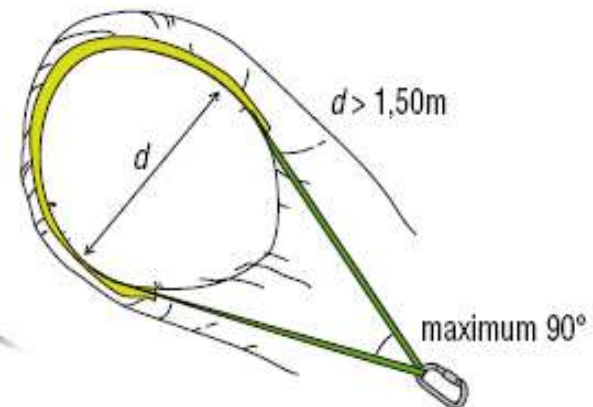
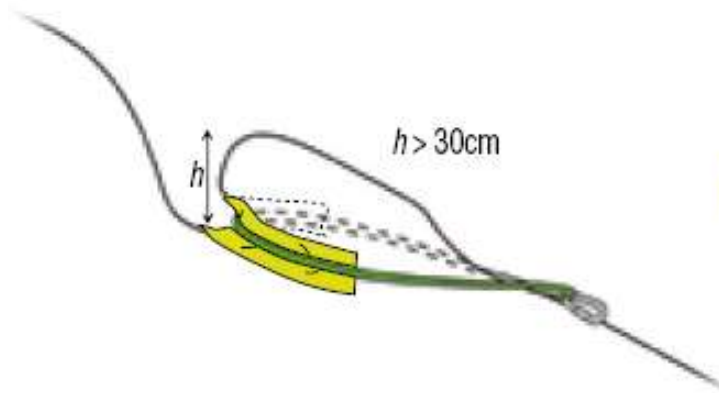
Other Deadman Substitutes

- Packs
- Skis



Snow Bollards

- Can provide reliable snow anchors
- Time consuming



Flukes

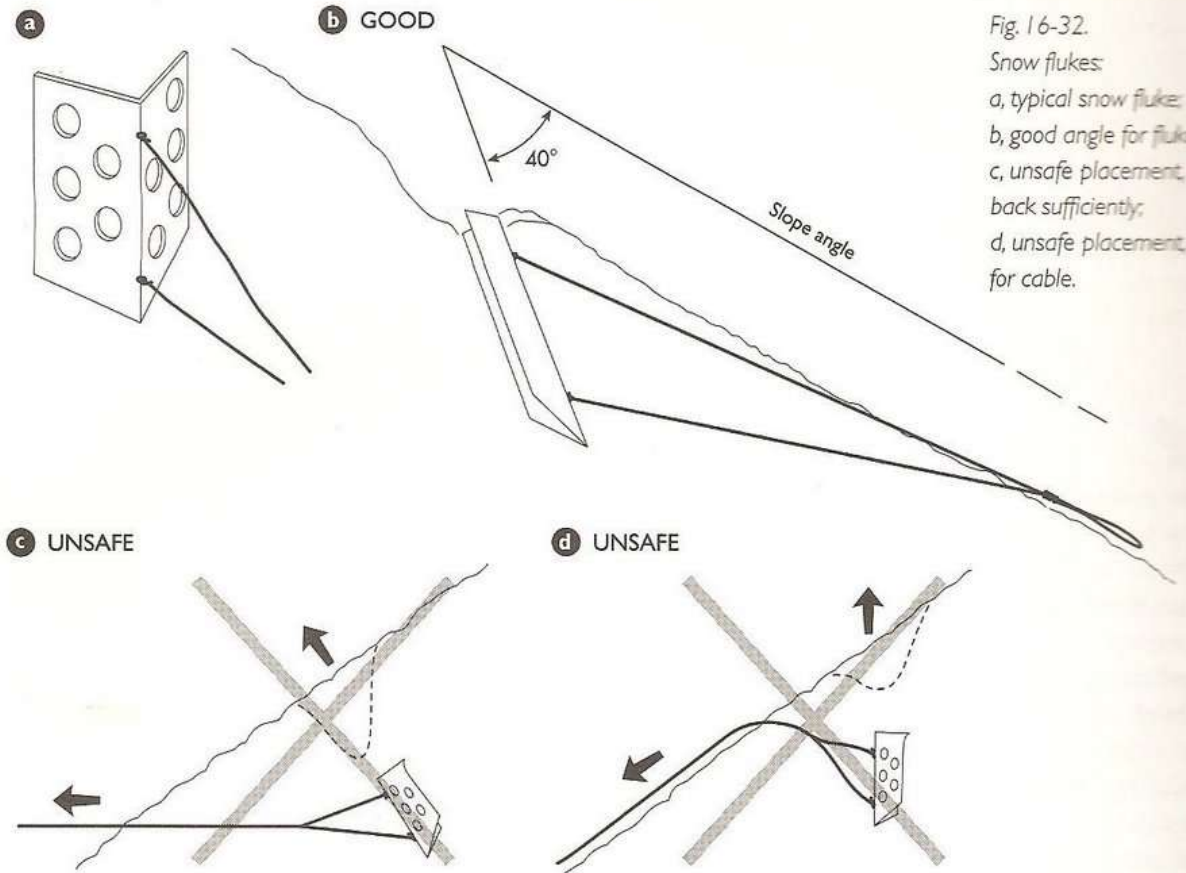


Fig. 16-32.
Snow flukes:
a, typical snow fluke;
b, good angle for fluke placement;
c, unsafe placement, not pulled back sufficiently;
d, unsafe placement, not pulled back sufficiently for cable.

The fluke – you'd be lucky if it works...

Multiple Anchors

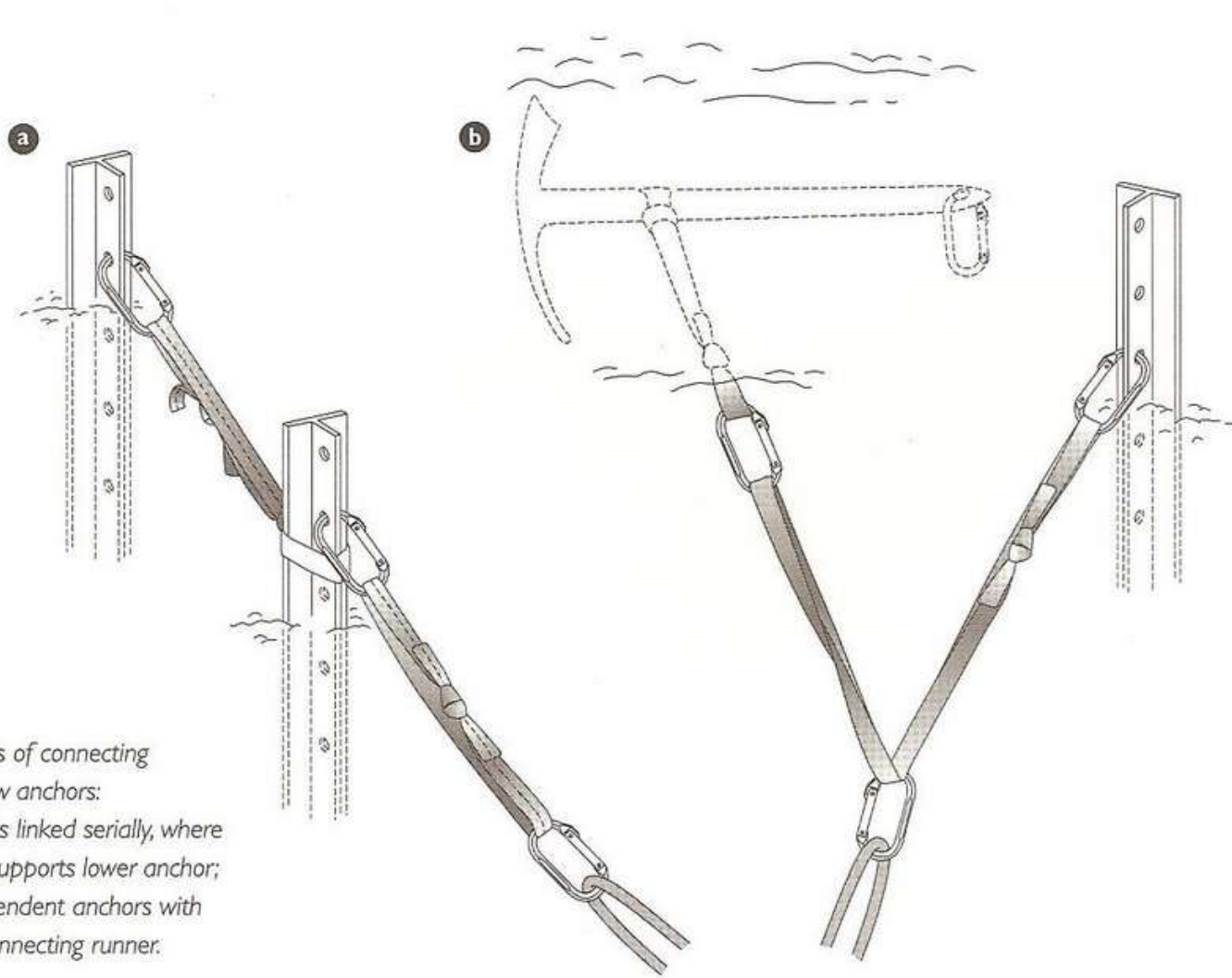


Fig. 16-34.

Two methods of connecting multiple snow anchors:
a, two pickets linked serially, where top anchor supports lower anchor;
b, two independent anchors with equalized connecting runner.

Special Snow Terrain Features

- Ridges
- Couloirs
- Cornices

Ridges

- Generally free of rockfall and avalanche danger
- Weather and cornice hazards

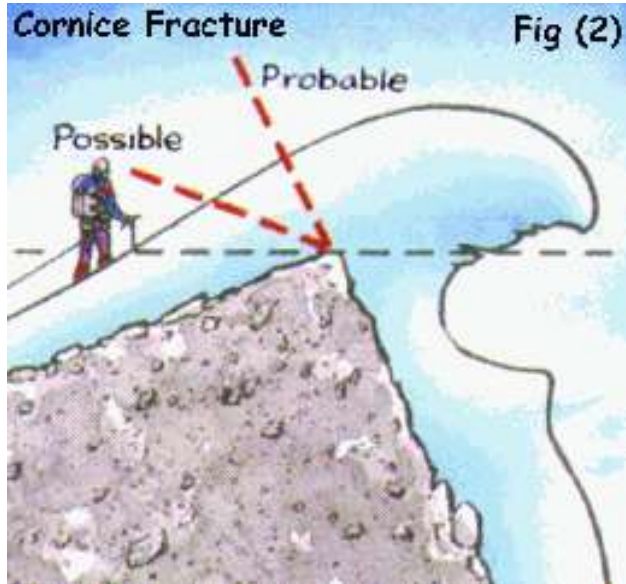


Couloirs

- Fast avenues to the summit
- Technically easier climbing
- Rockfall, ice fall, avalanche hazards



Cornices



Snow travel...



- Great fun!
- Be aware of snow conditions
- Practice self-arrest, snow travel techniques, snow belay, snow anchors
- Watch for hazardous terrain and features

Questions / Comments ?