



Figure 6.18. Hole loading and blasting patterns in surface bench mining. (a) Cross section through drillhole showing loading and charging of explosives. (b) Plan view of diagonal blasthole pattern; breaking to two vertical free faces with millisecond delays. (After Stefanko and Bise, 1983. By permission from Society of Mining Engineers, Inc., Littleton, CO.) (c) Plan view of echelon blasthole pattern; breaking to single vertical free face with millisecond delays. (After Anon., 1977. By permission from E. I. duPont de Nemours and Co., Wilmington, DE.)