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COVER
El Misti Volcano, with city of Arequipa, Peru, in foreground. The lavas, together with those of the numerous stratovolcanoes along the Pacific coasts of North and South America, are predominantly andesite. Geochemical studies show that the El Misti lavas contain a component from rocks of the Precambrian basement on which the volcano sits. See page 1245. [G. R. Tilton, University of California, Santa Barbara]