

Fig. 5-3. Genetic characterization of natural gases by isotopic variation: (a) relative concentration of deuterium and 13C in CH4; (b) relative concentration of 13C in CH4 and in C2H5, with arrow Md indicating the result of mixing with isotopically-positive CH4 from depth, and arrow Ms indicating the result of shallow mixing with isotopically-negative CH4 of biogenic origin (reproduced with permission from Schoell, 1983a, 1983b).