GEOLOGY OF THE SÖKE-SELÇUK-KUŞADASI REGION AND PETROCHEMICAL FEATURES OF THE VOLCANIC ROCKS

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ABSTRACT.— The basement of the investigated area consists mainly of metamorphic rock units of the «coverschists» of the Menderes massive, namely Şenköy, Bafa formations and Bozdağ group with respective ages of Early-Medial Permian, Upper Permian-Lower Triassic and Middle Triassic-Upper Cretaceous. Zeytinköy formation, a flyschoid sequence of Upper Cretaceous age, overrides the basement by a tectonic contact. These are unconformably overlain by the continental Söke formation of Miocene age followed by Balatçık and Hisartepe volcanics. Quaternary is represented by colluvium and alluvium. Petrochemical work shows that the volcanics originated partly from the mantle, but mainly are of siallic origin. They are campared to other volcanic rocks of the region.