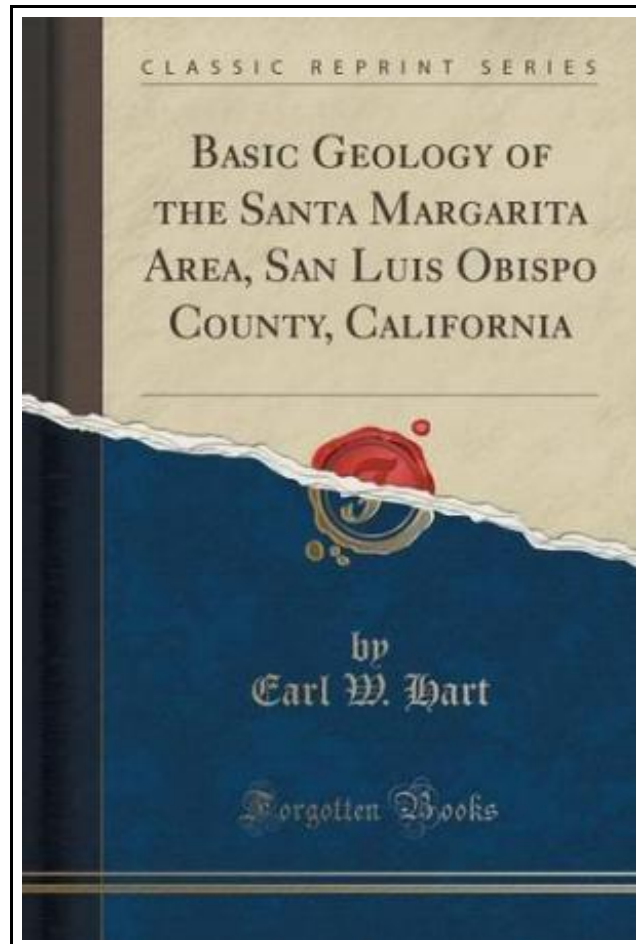


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Basic Geology of the Santa Margarita Area, San Luis Obispo County, California The Santa Margarita area of investigation lies astride the Rinconada fault, which divides the area into two distinct geologic and physiographic terranes - the La Panza Range to the east and the Santa Lucia Range to the west. The La Panza Range consists of Cretaceous granodiorite and adamellite with minor associated schist of the Salinian block. This is overlain by unnamed Upper Cretaceous sandstone and conglomerate and a relatively thin sequence of marine and nonmarine sedimentary rocks of Oligocene(?) to Holocene age. In contrast, basement rocks of the Santa Lucia Range consist of the chaotic Franciscan melange - a tectonic unit of probable late Mesozoic age. Overlying this are thrust plates of: 1) serpentinite and an intrusive complex of ultramafic-mafic rocks, 2) mafic volcanic rocks with chert, and 3) incomplete Great Valley-like sedimentary sequences of the Toro and Atascadero Formations of Late Jurassic to Late Cretaceous age. Tertiary marine and nonmarine sequences of sedimentary and volcanic rocks rest unconformably on the older units - the best preserved sequence being the Vaqueros, Monterey, and Santa Margarita Formations of Miocene age along the northeast margin of the Santa Lucia Range. Aside from being stratigraphically complex, most of the formations are severely faulted and folded as a result of two or more prolonged periods of tectonism. Late Mesozoic to early Tertiary thrust faulting is largely obscured by northwest-trending faults and folds of Miocene to Pleistocene (Holocene?) age. The principal structures are the Rinconada and Nacimiento fault zones and the intervening Santa Margarita syncline. The importance of the Rinconada fault is manifest in the highly contrasting rock...

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