

ON THE ISOSTATIC STATE OF THE PERUVIAN ANDES

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Various methods are used to examine the isostatic state of mountain ranges. Particularly, we analyzed the geoid undulations on different andean sections in Peru to obtain its isostatic state and the crustal structure. The geoid undulations (based on the geopotential model OSU91), after to obtain the andean wavelenghts, was compared with an isostatic balance model. Herewith, we define the isostatic metric anomaly. To define the crustal model, the geoid undulations are inverted. Thus, we shown that the geoid undulations are a very useful tool to analize the andean geotectonic structure.