Empirical study on a publisher questionnaire network\textsuperscript{1} LEI YUAN, HUI CHANG, DA-REN HE, Yangzhou University — The China High Education Publisher distributed ten thousands of questionnaires to university students for knowing their satisfaction degree on the published textbooks. We empirically investigate the statistical properties by using a network description. In the network the vertices are defined as textbooks, two vertices are connected by an edge when the students in a common specialty used them. A student specialty is defined as an act. The average satisfaction degree mark given by students on each textbook is defined as the vertex weight. Some statistical properties have been obtained. The degree distribution shows an exponential decay, while the act degree distribution shows a SPL function that indicates an interpolation between a power law and an exponential decay. Both the dependence of the clustering coefficient on the vertex degree and the cumulative vertex weight distribution show SPL functions. The assortativity shows a positive number, 0.14.

\textsuperscript{1}supported by Chinese National Natural Science Foundation, No. 10635040 and 70671089