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Engineering Education System in China Evolution Features and Future Development Approaches

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Abstract: After reviewing the evolution of engineering education systems in Europe the United States and China the paper finds that although engineering education systems in different countries and regions have their own characteristics they generally follow the same path of technological-scientific-engineering transition. Moreover the development of engineering education systems is closely related to the industrialization and modernization process of their respective locations indicating that engineering education is one of the important driving forces for modernization. The strategic mission of Chinese path to modernization calls for building a world-class engineering education system with Chinese characteristics. Such a system should adapt to China's specific national conditions and serves Chinese path to modernization specifically it should serve the country's major strategic needs promote the organic balance between engineering science and engineering practice encourage the simultaneous development of knowledge innovation and industrial practice connect multiple stages and integrating multiple types of education systems and accelerate the integration of digital and intelligent technologies. Based on this analysis this paper proposes three approaches to building the engineering education system with Chinese characteristics outlining an overall plan for engineering education strategy promoting dynamic adjustment of the size and quality of engineering education and driving education and teaching reform through the integration of science education and industry.

Key words: Engineering Education System Institutional Evolution Chinese Characteristics Features