



# Test methods for the quality assurance during the production of PEM fuel cells

By Selmen Laabidi

GRIN Verlag Jul 2015, 2015. Taschenbuch. Book Condition: Neu. 259x213x7 mm. Neuware - Bachelor Thesis from the year 2015 in the subject Engineering - Mechanical Engineering, grade: 1,7, Swiss Federal Institute of Technology Zurich (Institute of machine tools and manufacturing), language: English, comment: Note: 5,5/6 (Schweiz) entspricht der Note: 1,7 im dt. Notensystem, abstract: With the rising cost of energy, the increasing environmental awareness and the global warming, alternative drive systems are becoming increasingly important. Here, the fuel cell technology makes as clean and reliable method of energy production a great contribution. Many automotive companies like Hyundai, Daimler and Toyota are working intensively on fuel cell vehicles. Toyota has succeeded in December 2014 to bring the first car powered by hydrogen, the Toyota Mirai, on the market and it expects in the 2020s already with tens of thousands of vehicles annually. Therefore, the sales numbers will be increasing, which will require a mass production of fuel cells. Fuel cell technology is based on the principle of electrolysis. In order to generate electricity, hydrogen and oxygen are supplied to the fuel cell, where they react to electricity, water and heat. Thus cars powered by fuel cells have many advantages over cars...



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