GREEN TRANSPORTATION SYSTEM

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GREEN TRANSPORTATION SYSTEM

Environmental sustainability is largely measured by the transportation system. Green transportation revolves the efficient and effective use of resources, makes the low carbon and healthier environment for the nation by reducing the greenhouse gas emission. Promising innovative technologies could be the ultimate solution, but innovation comes to fruition if society plays a crucial role in the development of electric vehicle focused on decarbonised transport. Developing effective and affordable policies to ensure the introduction of low carbon technologies in line with political aspirations requires an understanding of how markets work to save fuel. Green Transportation System, First Edition, gives aspiring and practicing engineers a fundamental understanding of technologies for electric vehicle design and development that meet the national goal of environmental sustainability. Green Transportation System presents the basic of design, components selection and sizing, system integrations of electric vehicle development, the utilizing battery recycling and policy for green transportation system initiation. This edition would receive a wide assessment at the system level for electric vehicles. The authors bring this new edition “Green Transport System” to a new level, significantly expanding the possibilities of designing and developing electric transport while maintaining an integrated systems approach. This publication is presented as a resource for practising engineers and graduate students interested in the latest developments in electric transport.

ATAUR RAHMAN, obtained a Bachelor of Science (Mechanical Engineering) from the Chittagong University of Engineering and Technology (CUET), Bangladesh in 1991. He started his career as an Assistant Engineer at the Bangladesh Machines Tools Factory, Gazipur, Dhaka, Bangladesh in 1992 and later he was appointed as an engineer in 1994. He was appointed as a maintenance engineer at STEADTLER Germany-Malaysia from 1996-1998. He obtained a Master of Business Administration (Techno-Entrepreneurship) from the University Technology Malaysia (UTM) in 2000, Master of Engineering (Automotive) from UTM in 2001 and Degree of Doctor of Philosophy in Engineering [Bio-Production Machinery (Automotive Engineering)] from the University Putra Malaysia (UPM) in 2005. He was appointed as a Visiting Fellow for “Designing Automation System for Off-road Vehicle” at the Mechanical Engineering Laboratory, The University of Tokyo, Japan for 2005-2006. Later, he was appointed as an Assistant Professor at the Department of Mechanical Engineering, International Islamic University Malaysia (IIUM) in 2006. Later he was promoted by IIUM for the post of Associate Professor in 2010 and Professor in 2014. He was appointed team leader of the “IIUM Smart Mobility” project by the Department of Mechanical Engineering of IIUM for the Proton Green Mobility Challenge (PGMC) 2012 for “Designing Electric Vehicle” and competing with the top 10 universities in Malaysia. His team earned the Overall Championship Award and 1st position for the both of fastest and farthest distance traveled. He is Chairman of the IIUM Centre for Excellence of Electric Mobility (ICEM).

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