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the enhancement of transport rates due to the smaller length scales transfer areas and high surface to volume ratio in miniature devices are explored along with the evaluation of additional shape dependent forces at small length scales

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microscale transport processes by Prof S Dasgupta Dr Somnath Ganguly Department of Chemical Engineering IIT Kharagpur

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the advancements in micro and nano fabrication techniques especially in the last couple of decades have led research communities over the world to invest unprecedented levels of attention on the science and technology of micro and nano scale devices and the concerned applications

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research related to microscale thermal transport phenomena in biological systems and applications and discusses methodologies and findings by categorizing and reviewing some of the recent advances

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a complete fuel cell is an extremely complex system involving both microscale and macroscale geometric features and transport processes in order to devise a numerically tractable three dimensional model of a complete cell it is necessary to invoke a number of simplifying assumptions

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this book edited by dr suman chakraborty who is currently professor in mechanical engineering department and the advanced technology development centre at the indian institute of technology kha

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modeling of microscale transport in biological processes provides a compendium of recent advances in theoretical and computational modeling of biotransport phenomena at the microscale the simulation strategies presented range from molecular to continuum models and consider both numerical and exact solution method approaches to coupled systems

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microfluidics and microfabrication discusses the interconnect between microfluidics microfabrication and the life sciences specifically this includes fundamental aspects of fluid mechanics in micro scale and nano scale confinements and microfabrication

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the present work reviews the recent nano microscale numerical studies of mul 718 tiphas reactive transport processes in porous electrodes and gas channels of pemfcs

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