



深地科学论坛 (第六十八讲)

Modelling transport in porous media

报告人: **Andrey P. Jivkov 教授**

时 间: 2023 年 11 月 07 日 10:00

地 点: 深地国重 411 会议室 (腾讯会议: 806194938)

邀请人: 刘江峰教授



Andrey P. Jivkov is a Professor of Solid Mechanics and currently Head of Department of Solids and Structures in the School of Engineering, University of Manchester, UK. His research since 1997 has been dedicated almost exclusively to the civil nuclear sector, both in academia and industry, first on the safe operation of NPPs and more recently also on the safe disposal of nuclear waste. He joined the School of Engineering at Manchester in 2010 as Research Lecturer, was promoted to Senior Lecturer in 2015, and to full Professor in 2017. His expertise is in modelling the performance of materials subject to different, often coupled, physical processes, such as deformation, damage, fracture, mass, and heat transport. He has experience with different classes of metallic materials, such as ferritic and austenitic steels, nickel, copper, and aluminum alloys, as well as different classes of quasi-brittle materials, such as cement-based composites, nuclear graphite, and geological. His research has always been focused on understanding the relations between the internal structures of materials and their performance in engineering structures and translating this understanding into advanced mathematical models. Since 2017 he has been working on new mathematical formulations that can expedite the discovery of such relations and the talk will make an overview of these developments. Prof Jivkov has published over 180 peer-reviewed papers, of which more than 110 journal articles, graduated 21 PhD students, supervised 13 post-doctoral research associates, and delivered 14 invited, keynote, and plenary lectures at international conferences. He serves as expert reviewer to the funding agencies in several countries in Europe and North America.

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