



## Convection in Channels and Porous Media

By Rocha, Luiz

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Analysis, Optimization, and Constructal Design | Convection in porous media has a large field ofapplication. Firstly, this book presents ananalytical and numerical study of the generation andflow of methane gas through a layer of porous mediumimpregnated with solid clathrate hydrates. Later, design with constructal theory is addressed. Westart studying the fundamental problem of maximizing the thermal contact between an entire heat-generating volume and a pulsating stream of coolant that bathesthe volume. A series of examples in which the global performance of flow systems is optimized subject toglobal constraints is also presented. The textcontinues describing a hierarchical strategy todeveloping the optimal internal structure of a roundheat-generating body cooled at its center with thehelp of optimally distributed inserts of high-conductivity material. Finally, it considers the fundamental problem of squeezing into a fixed volume the highest heat transfer rate that can be made to occur between two streams at differentinitial temperatures. | Format: Paperback | Language/Sprache: english | 292 gr | 216 pp.



## Reviews

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