

Superfast non-linear diffusion model of capillary transport in particulate porous media

by

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A L y no ¹ M M shch h² M B nes¹ G heof no s²
Dep r en of M he cs nd s cs n ers y of Re d ng Re d ng RG AX ¹
Cen er for R s d es nd fe y n ers y of C forn n B r r n B r r CA A ²

Abstract

The migration of liquids driven by the capillary fón

s r on e e he q d do ns y e her e he for of so ed pend r r ngs or
 s p y q d r dges for ed e een he spher c p r ces he po ns of con c s_{min}
 s — or hey y co escence n o ore co pe s r c res e r ers pen ers

s ƿr on rega on y occ rs o er he s rf ce e en s of he gr ns he gener heore
 c n yss of e ng o s o er ro gh s rf ces s essen y nco pe e one c n o n n
 es e of he per y coe cen on he ss of res s f

from the case of PME the $s_{\mathbf{A}}$ es of $s \approx$ the from e d o he so c ed s gn on
for h ch $\mathbf{v} \approx$ nd ng $s_{\mathbf{A}}$ es occ r efore he from e ec e y s r s $s_{\mathbf{A}}$ ong h s

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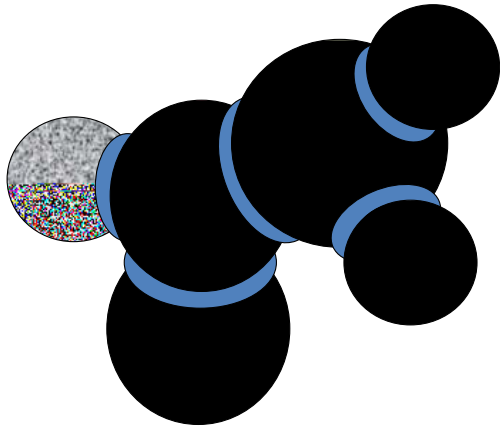


Figure 1. Structure of the pendant ring reg. α -olefins of structure