

# Bond Percolation on Fractals: The Trivial and the Frustrating

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## **Abstract**

Bond percolation is an elegant way of producing random subgraphs from a fixed larger graph. First this is complicated by taking percolation on a limiting family of graphs. Then complicated even more by having three fractals to consider, the diamond, the non-p.c.f. Sierpinski gasket, and the hexacarpet. I will share with you the triviality of the problem for the standard Sierpinski gasket and how to deal with the more complicated fractals as well. This is the current evolution of joint work with former Cornell undergrad Derek Lougee.