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Section:

6. Topology

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Zoch, Avery, S., University of Houston-Downtow, U. S. A.

The Jordan Polygonal Theorem

In this article it is proven that the jordan curve theorem can be extended to the case of a polygon with positive area. There is an interesting use of the Erdos-Szekeres theorem along the way to this result and a corollary that has proved very useful in other works of the author that involves the Euler characteristic theorem for planer simple graphs.
Reference: A. S. Zoch, The Jordan Polygonal Theorem, American Mathematical Society (current review)