The Kronecker product is an operation on two matrices that results in a larger block matrix. Figure 1 shows how this operation is performed. The Kronecker product is important in a wide variety of applications. A few specific ones are linear algebra and signal processing, image processing, semidefinite programing, quantum computing, and fast linear transforms. Johann Georg Zehfuss also used this in his determinant conclusion.

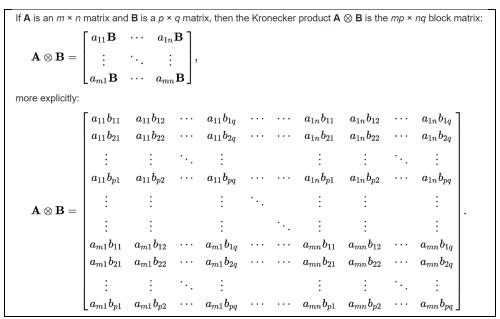


Figure 1: Kronecker product operation.

https://en.wikipedia.org/wiki/Kronecker product

https://www.hindawi.com/journals/jam/2013/296185/

https://digitalcommons.unf.edu/cgi/viewcontent.cgi?article=1025&context=etd