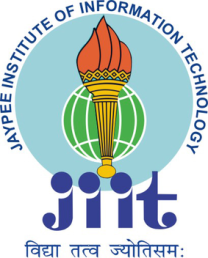
***JAYPEE INSTITUTE OF INFORMATION***

***TECHNOLOGY, NOIDA , SECTOR-62***

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***MATHS-2***

***PROJECT BASED LEARNING***

***ORTHOGONALITY OF FUNCTION AND IT’S APPLICATION***

***SUBMITTED TO:***

***Mr. ANUJ BHARADWAJ sir***

***BY :***

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***(BTECH – CSE 2nd SEMESTER)***

***acknowledgement***

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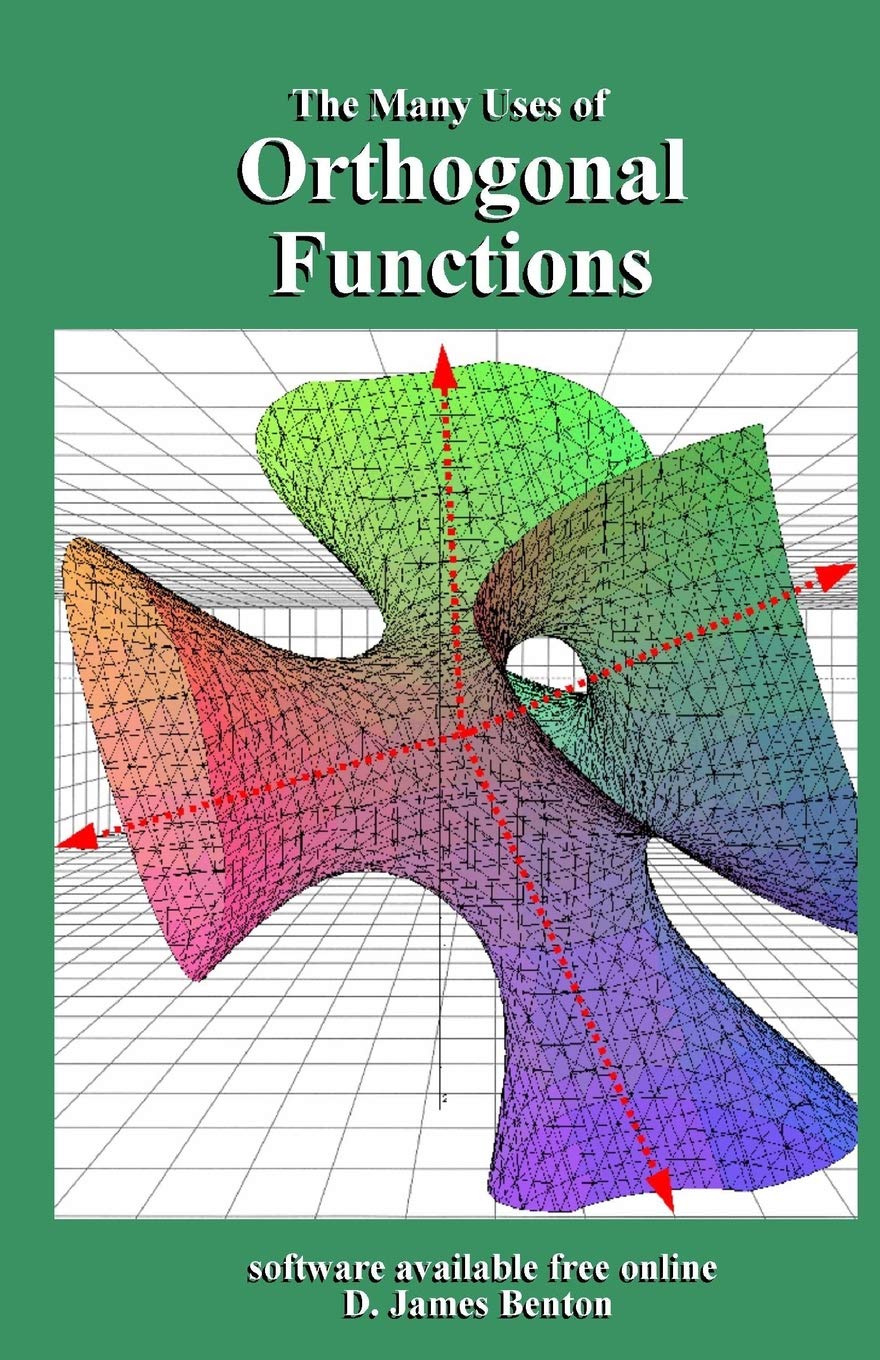
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***introduction***

*Orthogonal is commonly used in mathematics, geometry, statistics, and software engineering. Most generally, it's used to describe things that have rectangular or right-angled elements. More technically, in the context of vectors and functions, orthogonal means “having a product equal to zero.*

*In mathematics, orthogonal functions belong to a function space that is a vector space equipped with a bilinear form. When the function space has an interval as the domain, the bilinear form may be the integral of the product of functions over the interval.*

*Two functions are orthogonal with respect to a weighted inner product if the integral of the product of the two functions and the weight function is identically zero on the chosen interval.*



***DEFINE ORTHOGONAL FUNCTION***

***references***

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***THANK YOU***