



*Universal Cross Product*

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## Abstract

In this research manuscript, the author has elucidated the ‘*Universal Cross Product*’ of two Sets not necessarily equal in Size.

## Theory

In this research manuscript, the author has elucidated the ‘*Universal Cross Product*’ of two Sets not necessarily equal in Size.

Firstly, we consider two sets  $\{S_1\}$  and  $\{S_2\}$  such that their elements are given by

$$\{S_1\} = \left\{ {}^3_4S_1, {}^3_5S_1, {}^2_3S_1, {}^1_4S_1, {}^5_6S_1, {}^5_7S_1, {}^3_8S_1, {}^4_4S_1 \right\} \text{ and}$$

$$\{S_2\} = \left\{ {}^3_4S_2, {}^3_5S_2, {}^3_{11}S_2, {}^3_8S_2, {}^5_7S_2, {}^4_4S_2 \right\}$$

where, the notation  ${}^\alpha_\beta S_i$  implies that it is  $\beta^{\text{th}}$  Position Prime Metric Base Element

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of Sequence Of Primes of Order Space  $\alpha$

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and that this element belongs to the  $i^{\text{th}}$  Set, namely  $S_i$ .

$$\text{Therefore, } \{S_1\} = \left\{ \begin{array}{l} {}^3_4S_1, {}^3_5S_1 \\ {}^2_3S_1 \\ {}^1_4S_1, {}^5_6S_1, {}^5_7S_1 \\ {}^3_8S_1 \\ {}^4_4S_1 \end{array} \right\} \text{ which can be represented by}$$

$$\{S_1\} = \left\{ \begin{array}{cccccccc} \Phi & \Phi & \Phi & {}^1_4S_1 & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & {}^2_3S_1 & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & {}^3_4S_1 & {}^3_5S_1 & \Phi & \Phi & {}^3_8S_1 \\ \Phi & \Phi & \Phi & {}^4_4S_1 & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & {}^5_6S_1 & {}^5_7S_1 & \Phi \end{array} \right\}$$

where  $\Phi$  indicates a Null Set, i.e., no Element.

$$\text{And } \{S_2\} = \left\{ \begin{array}{l} {}^3S_2, {}^3S_2, {}^3S_2 \\ {}^5S_2 \\ {}^4S_2 \end{array} \right\} \text{ which can be represented by}$$

$$\{S_2\} = \left\{ \begin{array}{ccccccc} \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & {}^3S_2 & {}^3S_2 & \Phi & {}^3S_2 \\ \Phi & \Phi & \Phi & {}^4S_2 & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & {}^5S_2 \end{array} \right\}$$

Where  $\Phi$  indicates a Null Set, i.e., no Element.

We note that the two sets  $\{S_1\}$  and  $\{S_2\}$  are of different Size after the rendering in the afore-detailed rectangular array, therefore, we upgrade the Lower Sized Set to the Higher Sized Set by simply inserting a  $\Phi$ , i.e., a Null Set, i.e., no Element at the Blank Spaces.

We now consider the *Universal Cross Product* of the two sets  $\{S_1\}$  and  $\{S_2\}$  in the following fashion

$$\{S_1\} \times \{S_2\} = \left\{ \begin{array}{ccccccc} \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & ({}^3S_1 \times {}^3S_2) & ({}^3S_1 \times {}^3S_2) & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & ({}^5S_1 \times {}^5S_2) \end{array} \right\}$$

i.e.,

$$\{S_1\} \times \{S_2\} = \left\{ ({}^3S_1 \times {}^3S_2), ({}^3S_1 \times {}^3S_2), ({}^5S_1 \times {}^5S_2) \right\}$$

where, the *Operation* ‘ $\times$ ’ can be anything, for example, *An Ordered Pair, Addition, Multiplication, Subtraction, etc.*

## Conclusion

One can note that this concept of *Universal Cross Product* finds use in many facets of Mathematics, Science and Engineering.

## Moral

*Marriages Are Made In Heaven.*

## References

**Ramesh Chandra Bagadi**

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**Category:** General Mathematics

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Corrosion and Its Control: Proceedings of International Conference on Corrosion CORCON '97 A NACE International Conference, Nehru Centre, Mumbai, India, 3-6 December 1997, Elsevier Science Ltd Publishers, Vol. II, (1997) pp. 1067-1073, ISBN 13: **9780444829160** ISBN 10: 0444829164
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**Ramesh Chandra Bagadi**

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**Computer Science > Data Structures and Algorithms**

1. **One, Two, Three and N Dimensional String Search Algorithms**

Ramesh C. Bagadi

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## ***Dedication***

*All of the aforementioned Research Works, inclusive of this One are **Dedicated to Lord Shiva.***



