

CHAPTER

7

Algebraic Structures

7.0 INTRODUCTION :

We known that computer applications does not work on pictorial representation of the graphs and hence it is necessary to represent them into algebraic form. In this chapter we shall discuss the concept of abstract algebra by using a binary operations based on set theory.

7.1 BINARY OPERATION :

If A is a non-empty set then a function $f: A \times A \rightarrow A$ is called a **binary operation** on A .

A function $f: A \times A \times \dots \times A \rightarrow A$ is called an **n -ary operation**. A function $f: A \rightarrow A$ is called an **unary operation**.

If $*$ is the binary operation on A and $a, b \in A$ then it may be written as $a * b$ and $a * b \in A$ is unique.

The binary operation can also be denoted by the symbols $+$, $-$, \otimes , Δ , \vee , \wedge , etc.

Some of the examples of binary operations are :

1. The operation of addition is a binary operation on the set of natural number as addition of any two natural numbers is again a natural number.
2. The operation of subtraction is a binary operation on the set of integers but not on the set of natural numbers.
3. The operation of multiplication is a binary operation on the set of natural numbers and integers.
4. The operations of intersection and union are binary operations on the set of subsets of some set.

A binary operation on set A is also known as **composition**. If A is a finite set then binary operation on A can also be described by means of a table, called

composite table or cayley table. For example, consider the set $A = \{1, 2, 3\}$ and a binary operation $*$ on A defined by $a * b = a$. Then we have the following table :

*	1	2	3
1	1	1	1
2	2	2	2
3	3	3	3

Whereas the operation $*$ defined by $a * b = a + 2b$ on $A = \{1, 2, 3\}$ is not a binary operation as can be seen from the following table :

*	1	2	3
1	3	5	7
2	4	6	8
3	5	7	9

We can also define the binary operations directly by representing composite tables. For example, we define binary operation \wedge and \vee on $A = \{0, 1\}$ as

\wedge	0	1	\vee	0	1
0	0	0	0	0	1
1	0	1	1	1	1

Example – 1 : Is addition a binary operation on $\{-1, 0, 1\}$? Justify. (Sept., 2021)

Solution : The composition table is :

+	-1	0	1
-1	-2	-1	0
0	-1	0	1
1	0	1	2

Since $-2 \notin \{-1, 0, 1\}$, addition is not a binary operation.

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Xiaolong Qi

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 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Popular eBook Platforms
 - Features to Look for in an Algebraic Structures Solutions Manual
 - User-Friendly Interface
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- Interactive Elements Algebraic Structures Solutions Manual

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- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebraic Structures Solutions Manual

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- Creating a Diverse Reading Collection Algebraic Structures Solutions Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Algebraic Structures Solutions Manual

- Setting Reading Goals Algebraic Structures Solutions Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Algebraic Structures Solutions Manual

- Fact-Checking eBook Content of Algebraic Structures Solutions Manual
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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