

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 $f: A \times A \times A \rightarrow A$ 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 $+$, $-$, \oplus , 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
0	0	0
1	0	1

\vee	0	1
0	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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James White



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web astm a234 wpb pipe fittings mechanical properties chiefly used in applications involving medium to high temperature pipeline systems the astm a234 standard steel pipe fittings are made from materials including different carbon and alloy steel grades bw a234 wpb fittings chemical composition the sum of cu ni cr and mo shall not exceed

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web specifications astm wrought butt weld fittings a234 a234m grade wpb astm a234 a234m grade wpb chemical properties mechanical properties tensile strength min ksi mpa yield strength min ksi mpa 0.2 offset note a wpb and wpc fittings manufactured from plate shall have a minimum elongation of 17

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web sa 234 gr wpb tee and a234 wpb elbow manufacturer in india what is astm a234 wpb fittings the astm a234 wpb is a standard specification used for steel pipe fittings it includes alloy steel and carbon materials for both moderate and high

temperature services these pipes are available in both welded and seamless variants

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web astm a234 asme sa234 is standard specification of carbon and alloy steel pipe fittings for moderate and high

temperature services common use material are astm a234 grade wpb wpc wp5 wp9 wp11 wp22 and wp91 it covers the butt welded pipe fittings of elbow tee reducer cap and cross and some socket welding threaded pipe fittings

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web sep 15 2020 what is astm a234 astm a234 is a specification for piping fittings of wrought carbon steel and alloy steel for moderate and high temperature service category corrosion resisting and heat resisting steels scope this specification covers wrought carbon steel and alloy steel fittings of seamless and welded construction these