

Assignment 3

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Abstract—This document balances the given chemical equation.

Download all python codes from

https://github.com/Matish007/Matrix-Theory-EE5609-/tree/master/Assignment_3/codes

and latex-tikz codes from

https://github.com/Matish007/Matrix-Theory-EE5609-/tree/master/Assignment_3

1 PROBLEM

Balance the following chemical equation:-



2 EXPLANATION

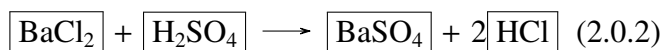


Element	Atoms in reactant(LHS)	Atoms in Product(RHS)
Ba	1	1
Cl	2	1
H	2	1
S	1	1
O	4	4

From the table we can see that except H and Cl ,all other elements are balanced.So first lets balance the Cl atoms.

Atoms of Chlorine	In reactants	In products
(i) initial	2.in BaCl_2	1. in HCl
(ii) To balance	2×1	1×2

Applying the following changes in equation we get:-



It can be seen that while balancing the Cl,H also balanced.Now,all atoms are balanced.

So,(2.0.2) is the required balance equation