

# SPON'S

ESTIMATING COSTS GUIDE TO  
MINOR WORKS, ALTERATIONS  
AND REPAIRS TO FIRE, FLOOD,  
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UNIT RATES AND PROJECT COSTS

BRYAN SPAIN



# Spons Estimating Costs Guide To Minor Works

**Bryan Spain**



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



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as mentioned in the previous section gsa is a population based stochastic algorithm and is inspired from the laws of gravitation it starts by assigning initial random positions to search agents each agent is characterized by its position and mass active gravitational mass passive gravitational mass or inertial see more

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to understand how the mapped problem is solved by gsa the results of various steps of the algorithm are given below for one iteration optimization problem see more

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