

## **Modelling Packed Bed Structures** William L. Eales, Chris J. Price, and Paul A. Mulheran

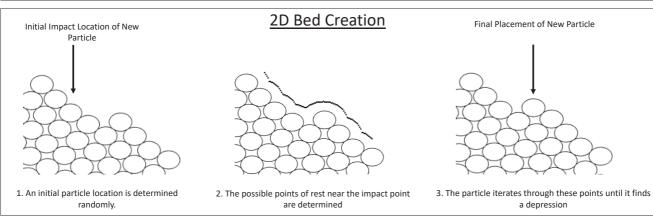
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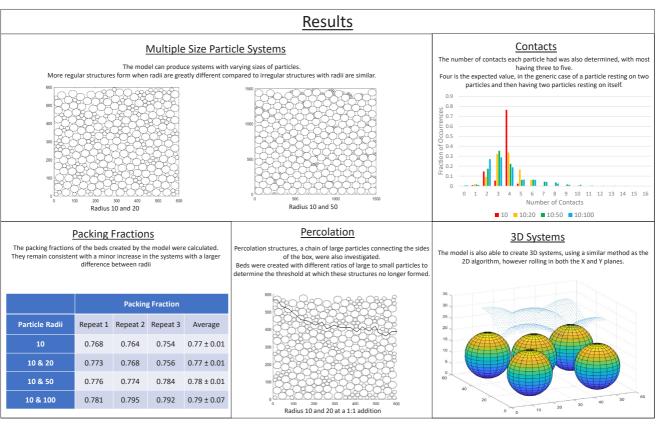
## Introduction

Agglomeration is where particles join together during isolation to form clusters, known as agglomerates. These agglomerates then cause issues for further processing, due to varying sizes, strengths and potentially containing impurities, which often results in the material having to be reprocessed or discarded.

## Aims and Objectives

The initial aim of this project is to produce a model that can simulate the packing of spherical particles in both 2D and 3D. This model will then be used to investigate the properties of the packed bed, such as the strengths of the contact points, impurity transport throughout the bed and how clusters form when the bed breaks apart.





## Future Work

- · Functionality to determine the forces present at the contact points between particles
  - · Functionality to create systems with non-spherical particles































