## **Accepted Manuscript**

A hybrid analytical-numerical method for solving water flow equations in root hydraulic architectures

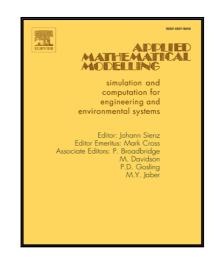
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### ACCEPTED MANUSCRIPT

## Highlights

- Segment-scale analytical solution was integrated in existing resolution of the water flow equations in hydraulic architectures
- The new hybrid method improves the accuracy of the solution
- It highlights the numerical errors made by existing approaches
- It can be easily implemented in any existing functional-structural model

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