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till now, numerical computational analysis is known as an alternative to approximately simulate the W/R interaction In this paper, one numerical procedure is proposed on the basis of explicit finite element method to analyse the complex stress state of W/R contact

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computational civil engineering is of large practical importance and still an issue of active research Most of the total time spent for the entire design and analysis process in structural engineering is often devoted to the creation of a suitable geometry and the generation of a computational mesh Only a

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methods Chapter 3 presents a detailed analysis of numerical methods for time-dependent (evolution) equations and emphasizes the very e cient so-called \time-splitting" methods These can, in general, be equally-well applied to both parabolic and hyperbolic PDE problems, and for the most part these will not be speci cally distinguished

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the time to create a complete numerical model and the analysis computational demand are very significant and in many cases is prohibitive if large scale computational resources are not available Accordingly, for practical purposes, meso- and macro-level analyses have become the most common methods for studying

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analysis suggests that computational thinking is likely a hybrid formulating rigorous analysis and procedures for accomplishing a defined task

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