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Gta Iv Patch 1.1 3 Crack Indirl \_BEST\_

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a successful identification of the crack location is done. the fatigue crack propagation is identified using the crack location. the fatigue crack propagation is identified in two stages. in the first stage, the fatigue cracks are identified, and in the second stage, the crack propagation is identified. the initial values of the maximum crack magnitude  $=a_0$  and crack location  $l_0=l_0$  are randomly set in the range of 0 to 1 in  $a_0=a_0$ , respectively. the empirical error functions include two component costs namely objective function (cost function) and convergence criteria (cost function). the objective function includes mse cost function and the convergence criteria include mse and maximum distance of a swarm particle (rndp) costs. the cost function is given by in this article, a novel structural parameter identification based on voltage matching by using pzt patch sensor is presented. unlike conventional accelerometer sensor, pzt patch is low cost, negligible weight, wide band width and dynamic measurement of distributed nature.

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mathematical model of the pzt sensor with host structure is developed on the basis of one-dimensional geometry and reduced material property. the structural identification is done by the minimization of mse of the deviation between the measured and predicted voltage responses with unknown structural parameters as optimization variables using pso. the effect of different pzt length is investigated with numerical example and convergence of the fitness functions of those case are studied. the result shows that identification using pzt:5% (smallest patch length under study) is even sufficient for accurate structural parameter identification and it is successfully verified experimentally. the mean absolute error (pzt:5%) are very low in the range of 0.1670.959% (noisy condition) for structural parameter identification as compared to other existing methods. it is also used for identifying the crack depth and location accurately with an mae of 4.8 and 1.63%, respectively, for noisy signal. the pzt method was capable of detecting crack depth more accurately

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than previous time and frequency domain methods.

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in order to study the ability of the proposed method in identifying the exact location of cracks, a sub structure of nine member frame is investigated.

in this case, a crack of size  $=0.5$  is simulated at the center of the node 12 in the frame structure (figure 11).

figure 12 shows the responses of the first mode of vibration at pzt patches placed at three different locations on the first column of the frame. the first and second natural frequencies of the first mode of vibration are found to be  $f=0.46$  and  $f=0.48$  hz respectively.

figure 13 shows the experimental and simulated responses of the first mode of vibration at pzt patches placed at the three different locations on the first column of the frame. the stiffness of the frame is defined as  $=0.35$  n/m, and the modal damping ratio is  $=0.03\%$ .

the experimentally measured and simulated responses of the first mode are shown in figure 13. the parameters

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of the host structure are taken from [ 30 ]. the first and second natural frequencies of vibration are  $f=0.46\text{hz}$  and  $f=0.48\text{hz}$ , respectively. the rayleigh damping is used for the first two modes of vibration. in order to study the effect of the patch size on the accuracy of identification, the proposed method is applied to the first and second columns of the frame structure as shown in figure 14. 5ec8ef588b

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