

论文

## A NEW METHOD FOR SOLVING RICCATI EQUATIONS AND LIAPOUNOFF EQUATIONS

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**摘要** The present paper gives a new method for solving Riccati equations. Using the Yokoyama canonical form, we transfer the primary Riccati equations, which contain  $n(n+1)/2$  unknown quantities and  $n(n+1)/2$  equations, into other equations which contain only  $m$  unknown quantities and  $m$  equations. Hence the new method simplifies the computation if  $m < n(n+1)/2$ .

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**Key words**

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