

Class R1R1Function

Members

(no member)

Methods

- R1R1Function ()
- virtual double operator()(double x) = 0

Class VanillaTerminalCondition : public R1R1Function

Members

- protected
- double Strike

Methods

- VanillaTerminalCondition (double strike)

Class R2R1Function

Members

(no member)

Methods

- R2R1Function ()
- virtual double operator()(double x, double t) = 0

Class NullFunction : public R2R1Function

Members

(no member)

Methods

- NullFunction ()
- double operator()(double x, double t) = 0

Class CallTerminalCondition : public VanillaTerminalCondition

Members

(no member)

Methods

- CallTerminalCondition (double strike)
- double operator()(double x)

Class PutTerminalCondition : public VanillaTerminalCondition

Members

(no member)

Methods

- PutTerminalCondition (double strike)
- double operator()(double x)

Class CallTopBoundary : public R1R1Function

Members

- private
 - double Smax
 - double Strike

Methods

- CallTopBoundary (double sMax , double strike)
 - double operator() (double t)
-

Class PutTopBoundary : public R1R1Function

Members

- private
 - double Smax
 - double Strike

Methods

- PutTopBoundary (double sMax , double strike)
- double operator() (double t)

Class CallBottomBoundary : public R1R1Function

Members

- private
 - double Smin
 - double Strike

Methods

- CallTopBoundary (double sMin , double strike)
 - double operator() (double t)
-

Class PutBottomBoundary : public R1R1Function

Members

- private
 - double Smin
 - double Strike

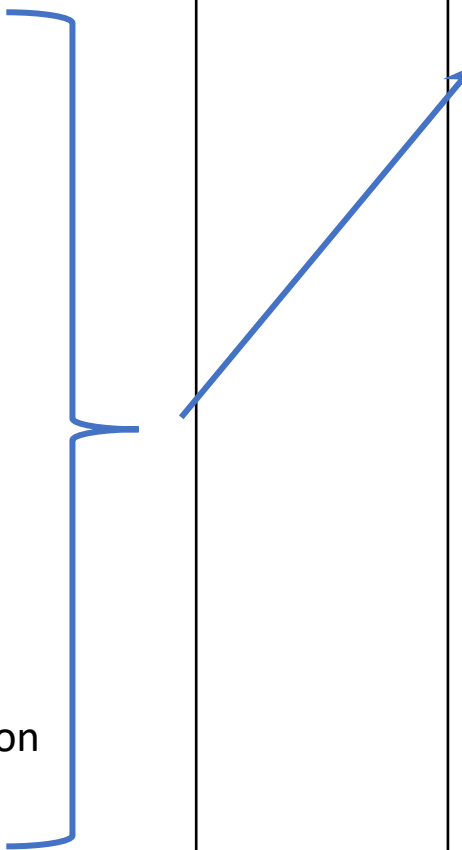
Methods

- PutBottomBoundary (double sMax , double strike)
- double operator() (double t)

class BSActualization : public R2R1Function	
Members	Methods
<ul style="list-style-type: none"> ➤ private ▪ double Rate 	<ul style="list-style-type: none"> ▪ BSActualization (double rate) ▪ double operator() (double x , double t)
class BSVariance : public R2R1Function	
Members	Methods
<ul style="list-style-type: none"> ➤ private ▪ double Sigma 	<ul style="list-style-type: none"> ▪ BSVariance (double sigma) ▪ double operator() (double x , double t)
class BSTrend : public R2R1Function	
Members	Methods
<ul style="list-style-type: none"> ➤ private ▪ double Rate 	<ul style="list-style-type: none"> ▪ BSTrend (double rate) ▪ double operator() (double x , double t)

Class PDEGrid2D

Members

- protected
 - double T
 - double MinX
 - double MaxX
 - double h0
 - double h1
 - R2R1Function * a
 - R2R1Function * b
 - R2R1Function * r
 - R2R1Function * f
 - R1R1Function * TopBoundaryFunction
 - R1R1Function * BottomBoundaryFunction
 - R1R1Function * RightBoundaryFunction
 - vector < vector <double> > Nodes
 - size_t NodesHeight
 - size_t NodesWidth
- 

Methods

- public
 - PDEGrid2D ([parameters])
 - virtual void FillNodes ()
 - double GetValue (double time, double spot)
- Private
 - void FillTopAndBottomBoundary ()
 - void FillRightBoundary ()

Class PDEGridExplicit : public PDEGrid2D

Members

(no member)

Methods

- public
 - PDEGridExplicit ([parameters])
 - void FillNodes ()

Class PDEGridImplicit : public PDEGrid2D

Members

(no member)

Methods

- public
 - PDEGridImplicit ([parameters])
 - void FillNodes ()

Class PDEGridTheta : public PDEGrid2D

Members

- Private
 - double Theta

Methods

- public
 - PDEGridExplicit ([parameters] , double theta)
 - void FillNodes ()