

endpapers

Timothy Daly

June 29, 2018

Contents

| | | |
|----------|--|----------|
| 0.1 | Basic Algebra Hierarchy Diagram | 4 |
| 0.2 | Basic Algebra Hierarchy | 5 |
| 0.3 | Data Structure Hierarchy Diagram | 7 |
| 0.4 | Data Structure Hierarchy Diagram | 8 |
| 1 | Bibliography | 9 |

This information comes from the end papers of the Jenks book[?].

0.1 Basic Algebra Hierarchy Diagram



0.2 Basic Algebra Hierarchy

SETCAT SetCategory
 ABELSG AbelianSemiGroup
 SGROUP SemiGroup
 ORDSET OrderedSet
 FINITE Finite
 ABELMON AbelianMonoid
 MONOID Monoid
 ORDFIN OrderedFinite
 CABMON CancellationAbelianMonoid
 OASGP OrderedAbelianSemiGroup
 GROUP Group
 ORDMON OrderedMonoid
 OAMON OrderedAbelianMonoid
 OCAMON OrderedCancellationAbelianMonoid
 ABELGRP AbelianGroup
 OAMONS OrderedAbelianMonoidSup
 RNG Rng
 LMODULE LeftModule
 RMODULE RightModule
 OAGROUP OrderedAbelianGroup
 RING Ring
 BMODULE BiModule
 LINEXP LinearlyExplicitRingOver
 MODULE Module
 FLINEXP FullyLinearlyExplicitRingOver
 VSPACE VectorSpace
 DIFRING DifferentialRing
 CHARNZ CharacteristicNonZero
 PDRING PartialDifferentialRing
 CHARZ CharacteristicZero
 ALGEBRA Algebra
 ENTIRER EntireRing
 COMRING CommutativeRing
 ORDRING OrderedRing
 DIFEXT DifferentialExtension
 DIVRING DivisionRing
 INTDOM IntegralDomain
 GCDDOM GcdDomain
 UFD UniqueFactorizationDomain
 PID PrincipalIdealDomain
 PFECAT PolynomialFactorizationExplicit
 EUCDOM EuclideanDomain
 FIELD Field
 FPC FieldOfPrimeCharacteristic

FFIELDC FiniteFieldCategory

0.3 Data Structure Hierarchy Diagram



0.4 Data Structure Hierarchy Diagram

SETCAT SetCategory
AGG Aggregate
ELTAGG EltableAggregate
HOAGG HomogeneousAggregate
ARR2CAT TwoDimensionalArrayCategory
MATCAT MatrixCategory
BGAGG BagAggregate
SKAGG StackAggregate
QUAGG QueueAggregate
DQAGG DequeueAggregate
CLAGG Collection
DIOPS DictionaryOperations
PRQAGG PriorityQueueAggregate
FINITE Finite
SETAGG SetAggregate
RCAGG RecursiveAggregate
IXAGG IndexedAggregate
DLAGG DoublyLinkedAggregate
DIRPCAT DirectProductCategory
LNAGG LinearAggregate
URAGG UnaryRecursiveAggregate
BRAGG BinaryRecursiveAggregate
BTCAT BinaryTreeCategory
DIAGG Dictionary
MDAGG MultiDictionary
ORDSET OrderedSet
ELAGG ExtensibleLinearAggregate
STAGG StreamAggregate
FLAGG FiniteLinearAggregate
KDAGG KeyedDictionary
FSAGG FiniteSetAggregate
MSETAGG MultisetAggregate
LZSTAGG LazyStreamAggregate
LSAGG ListAggregate
A1AGG OneDimensionalArrayAggregate
TBAGG TableAggregate
OMSAGG OrderedMultiSetAggregate
BTAGG BitAggregate
SRAGG StringAggregate
VECTCAT VectorCategory

Chapter 1

Bibliography

Bibliography

- [Jenk92] Richard D. Jenks and Robert S. Sutor. *AXIOM: The Scientific Computation System*. Springer-Verlag, Berlin, Germany, 1992, 0-387-97855-0.