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Benchwork	ABC's of benchwork	1987	Jan	83
Bridges	B&OCT Bascule Bridge	1973	Dec	58
Bridges	Bash a bridge	1973	Oct	54
Bridges	Simple truss bridge	1975	Oct	48
Bridges	Vandermenlers & Everett Sand & Gravel Co.	1976	June	74
Bridges	Bridges for the San Juan Central	1984	June	96
Bridges	The near-perfect bridge (walk-through)	1984	Nov	100
Bridges	Wood king - post truss highway bridge	1985	July	92
Bridges	Steel trestles from Centrral Valley Bridges	1985	June	68
Bridges	A big bridge for your double track main	1986	Feb	80
Bridges	Understanding bridge construction	1988	July	66
Clinic	Getting started in this hobby	1974	Dec	79
Clinic	How to solder	1996	Nov	116
Clinic	10 tips for beginners	2001	Jan	100
Clinic	How to host an open house	2002	Nov	100
Clinic	Terminology	2002	Nov	86
Clinic	Soldering wires	2003	Dec	56
Clinic	Lost art of sodering	2003	July	58
Clinic	Soldering	2007	Feb	76
Clinic	How to solder wire and track	2010	Aug	26
Clinic	Keep your older locomotives running	2010	Sept	24
Couplers	Survey	2000	July	58
DCC	DCC control system	1997	Dec	112
DCC	DCC control system	1997	July	94
DCC	How sound decoders work	2004	Dec	94
DCC	Wiring a peco electrofrog crossing of DCC	2005	Apr	92
DCC	DCC, choosing system	2005	Dec	74
DCC	10 steps to choosing a DCC system	2005	Jan	108
DCC	Stagging yard with DCC	2005	June	88
DCC	Convert a bascule bridge to DCC	2005	Mar	94
DCC	Power buses & districts	2005	Nov	94
DCC	Adding sound of steam	2005	Oct	92
DCC	DCC, reverse loop	2006	Dec	94
DCC	DCC, adding sound	2006	Dec	96
DCC	DCC caboose lighting	2006	Mar	98
DCC	Wiring & setting up DCC	2007	Feb	52
DCC	Installing decoders	2007	Jan	86
DCC	Installing DCC decoders	2008	Aug	74
DCC	Basic decoder programming	2008	Dec	84
DCC	Programing sound decoders	2008	Feb	84
DCC	Wiring power districts and wyes	2008	July	74
DCC	Choosing head lights	2008	May	82
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DCC	Consisting locomative headlights	2009	Aug	72

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DCC	Installing decoders in older diesels	2009	Feb	80
DCC	How to simulate momentum effects	2009	March	78
DCC	Wiring your layout Part I Track Bus	2009	Sept	70
DCC	Wiring reversing sections for DCC	2010	April	72
DCC	Understanding power districts	2010	Aug	66
DCC	Tips to convert a layout to DCC	2010	Jan	78
DCC	DCC control panels for train routing	2010	June	72
DCC	Understanding CV's	2010	May	70
DCC	What is digital command control	2010	Nov	68
Decoder	How to install in steam engines	2001	June	80
Editorial	Getting started in this hobby	1974	Dec	79
Editorial	Class J from MTH	2009	Sept	72
Freight cars	Weathering	2001	Nov	89
Freight cars	Weathering	2003	Feb	68
Freight cars	Detailing	2004	Nov	64
Freight cars	How to model big flatcar loads	2008	July	38
Freight cars	Roll your own steel coils	2009	May	50
Garden Railroading	How I got into garden railroading	1987	April	88
History	Chattahoochee Valley Shortline	1973	Dec	72
History	D&RG & RGS K-27's - Part 2	1973	June	38
History	Reading O-4-O Switcher	1974	July	56
History	4-8-2's of the Norfolk & Western RR	1974	Nov	52
History	Railroads in the mountains	1974	Oct	34
History	Missouri Pacific 2-8-0	1974	Oct	48
History	Electro-motive FT - first freight diesel	1975	April	48
History	D&H Poppet-valves Pacific	1975	Feb	52
History	Southern Railways Class F-1, 4-6-0 #949	1975	Nov	64
History	America's first Common Carrier RR - B&O	1976	July	74
History	Filer & Stowell Logging Locomotives	1976	May	46
History	Detailing a Pacific Coast Shey - Part 2	1983	Aug	88
History	Search light signals	1983	Jan	111
History	Super detailing a Pacific Coast Shay - Part 1	1983	July	50
History	Milwaukee Road Hiawatha	1984	Jan	112
History	Mescal Lines Railroad	1984	Jan	124
History	Great domes of the Empire Building	1984	June	73
History	D&RG Mountain Locomotive	1984	June	80
History	Arizona Logging Line	1984	March	70
History	Reading RR Passenger Cars	1984	Nov	90
History	Diesel Locomotives milestones	1984	Sept	82
History	Toy Train Museum	1985	Dec	108
History	Mich-Cal; 26-ton Shays	1985	Jan	82
History	Western Maryland Decapods	1985	June	74
History	Missouri-Kansas-Texas Pacifics	1985	Nov	92

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History	Louisville & Nashville Class L-1 Locomotive	1986	May	76
History	Illinois Central Mikado	1987	July	71
History	Pike-size Steam Passenger Trains	1987	Oct	77
History	NYC's 20th Century Limited	1988	April	76
History	Reading RR Atlantics	1988	Feb	89
History	100 years ago - Erie Branch	1988	Jan	112
History	Walt Disney model railroad	2003	Jan	92
Index	Jan-Dec 1972	1973	March	i
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Index	JanDec. 2007	2008	Feb	63
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Info	Track buyers guide	2003	Oct	90
Information	Circus train loading techniques	2008	June	24
Information	A moderers guide to USRA locomotives	2010	Dec	48
Layout	Improving derailments	1963	July	39
Layout	John Allen - GD Layout	1973	April	35
Layout	Simulating prototype trackway	1973	July	30
Layout	Takeout layouts	1973	June	56
Layout	London's Benchwork & Track Laying	1973	May	36
Layout	Terminal Central layout-track plan	1973	Oct	44
Layout	Railways of America 50' x 165'	1974	Aug	30
Layout	Building the Rochester Regional RR - Part 1	1974	Feb	55
Layout	Operation by zone	1974	Feb	66
Layout	The Double Crossing RR	1974	July	45
Layout	Take it with you - fold up layout	1974	June	60
Layout	Finishing the Rochester Regional RR - Part 2	1974	March	56
Layout	Five layouts of the Detroit Model RR Club	1974	Sept	44
Layout	Tuobmeme forks lumber co.	1975	Aug	50
Layout	Building the Marquette & Independence RR	1975	Dec	62
Layout	Fox River Grove RR	1975	Feb	62
Layout	The logging RR's of Louis Julhain	1975	Jan	54
Layout	Build an electric utility	1975	July	43

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Layout	The Brandy Wine Transit Co Part 1	1975	May	52
Layout	South Troy, English and Wickliffe RR	1975	Nov	50
Layout	Frank Ellison's legacy	1976	July	87
Layout	One of the World's Largest Home Layouts	1976	June	52
Layout	Chattanooga area railroad club	1977	Oct	91
Layout	Chattanooga area railroad club	1977	Oct	91
Layout	Pennsylvania railroad	1981	Mar	62
Layout	The Whiskey River Division, Great Northern RR	1982	Dec	84
Layout	A visit to the Virginian & Ohio RR	1982	Nov	68
Layout	Pennsylvania & Westbrook	1982	Nov	110
Layout	Track side stock pins for your layout	1983	April	80
Layout	Modeling RR at the Ohio State Fair	1983	Aug	82
Layout	A delux spray paint booth	1983	Aug	103
Layout	John Witten's Great Byron & Western (ceiling RR)	1983	Dec	84
Layout	Benchwork for the San Juan Central	1983	Dec	118
Layout	The Jerome & Southwestern Groves	1983	Feb	62
Layout	The Ohio Southern's by-level benchwork	1983	Feb	83
Layout	Alturas & Lone Pine RR	1983	Jan	66
Layout	Backdrops for the Jerome & Southwestern	1983	Jan	78
Layout	The Great Southern revisited	1983	June	58
Layout	Last days on the Duquesne	1983	March	58
Layout	Ride the San Juan Central	1983	Nov	88
Layout	Model RR Club, A progress report	1983	Oct	70
Layout	Hinged yards are easier	1983	Sept	76
Layout	Scenery for the San Juan Central	1984	April	56
Layout	Washito Canyon on the the Washito & Santa Fe	1984	Aug	58
Layout	Operation on the San Juan Central	1984	Aug	98
Layout	Wood highway crossings	1984	Dec	86
Layout	Building a Marengo, Milwaukee & Northern	1984	Dec	98
Layout	Building the Lamar, Queens & Northern	1984	Dec	122
Layout	Maryland and Susquehanna RR	1984	Feb	58
Layout	Golden Anniversary Goodwill Tour	1984	Jan	100
Layout	Paskenta Railway & Navigation Co.	1984	July	54
Layout	Henry Lee's Ute City Branch	1984	June	58
Layout	Diablo Valley Lines	1984	March	58
Layout	We build the Gold Hill Central	1984	March	85
Layout	Dennis Manwarriu's Generic RR	1984	May	92
Layout	Born to raise L's	1984	Oct	109
Layout	Northern Sierra & Fall Creek RR	1984	Sept	62
Layout	The GV&W, Scene 1	1984	Sept	67
Layout	Some ABC's of Z-scale	1985	April	58
Layout	Model RR as - and where - you like it	1985	April	75
Layout	The Peninsula Model RR Association	1985	Aug	54

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Layout	Jeas Bennett's Great Northern Pacific	1985	Feb	62
Layout	D&RG's San Juan extension	1985	May	58
Layout	Louisville & Nashville's Evansville Division	1985	May	88
Layout	The Utah Colorado Western	1985	Nov	82
Layout	Ironhead Timber co.	1985	Oct	60
Layout	The Magnolia Western RR	1986	April	58
Layout	Z-scale Western Pacific	1986	April	63
Layout	Franklin & South Manchester	1986	April	80
Layout	Locomotives servicing facilities	1986	Aug	80
Layout	Computer Interface - Part 16	1986	Aug	98
Layout	The Silverton & Telluride Railway Co.	1986	Jan	67
Layout	The Fundy Northern Expands	1986	July	62
Layout	Computer/Model RR interface	1986	June	100
Layout	Tall Pine RR	1986	March	60
Layout	Carpentry for the Z-scale Western Pacific - Part 2	1986	March	66
Layout	The North Shore Model RR Club	1986	May	52
Layout	Further adventures in G	1986	Nov	87
Layout	The Cottonwood and Shortcut	1986	Oct	75
Layout	Low cost HO turntable	1986	Sept	80
Layout	Franklin & South Manchester 1 year later	1987	April	56
Layout	Modular railroading Nashville style	1987	Aug	79
Layout	Allegheny Midland - Part 1	1987	Dec	88
Layout	Aberfoyle Junction II	1987	Feb	65
Layout	Crushed stone on Aberfoyle Junction	1987	Feb	70
Layout	TIBS, the train and industry blocking system	1987	July	91
Layout	West Tennessee Central	1987	Oct	58
Layout	Building the Carbondale Central - Part 2	1988	Feb	80
Layout	Building the Carbondale Central - Part 1	1988	Jan	80
Layout	Allegheny Midland - Part 2	1988	Jan	116
Layout	Flip A Scene	1988	July	94
Layout	A visit to Cyprus Junction	1988	June	56
Layout	O-scale Southern Keystone	1988	June	82
Layout	Two scenes for the space of one	1988	June	94
Layout	RioGrande and Southwestern	1988	March	60
Layout	Building the Carbondale Central - Part 3	1988	March	92
Layout	Auburn, Colona & Placerville RR	1988	May	60
Layout	Breakneck Mountain N-track Module 2	1988	May	98
Layout	Mountain layout	1990	Dec	124
Layout	Copper mine	1990	Dec	148
Layout	Fiber optics in railroading	1990	Nov	88
Layout	Animated pole operations	1991	July	76
Layout	Iron mining	1992	Nov	118

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Layout	Layout construction	1994	Jan	97
Layout	Helix	1994	Sept	78
Layout	Constructing a helix	1994	Sept	78
Layout	Multi level & helix	1995	Apr	96
Layout	Dressup power poles	1995	Aug	104
Layout	Return of the Clinchfield	1995	June	104
Layout	Hiding switch motors	1996	Aug	64
Layout	Huntington & Hartford	1996	Dec	84
Layout	Road bed, track & scenery	1997	Oct	78
Layout	Bench work for the Wisconsin Central	1997	Sept	66
Layout	Foam board	1998	April	94
Layout	Doubledeck railroad	1998	Feb	112
Layout	B&O RR	1998	Jan	76
Layout	Wiring, scenery & structures	1998	Jan	86
Layout	Lime & stone quarry	1998	Mar	80
Layout	Horseshoe curve	1998	May	84
Layout	Coal branch	1998	Nov	82
Layout	Pennsylvania railroad	1999	Apr	62
Layout	Western Pennsylvania	2000	Aug	48
Layout	West Virginia	2000	Aug	58
Layout	Appalachian Central	2000	Jan	74
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Layout	Fail safe turnouts	2001	Feb	90
Layout	Rail yard	2001	Sept	56
Layout	Pennsylvania Empire	2002	Apr	60
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Layout	Horseshoe curve of the 1950's	2002	Dec	116
Layout	Banish derailments for a smoother operation	2002	Feb	84
Layout	Part 1	2002	Oct	54
Layout	Storage capacities for a layout	2003	April	90
Layout	Quick & easy flex track	2003	Aug	76
Layout	Adding a swinging bridge	2003	Aug	82
Layout	10 tips for starting right	2003	Dec	116
Layout	Laying track & building hills	2003	Feb	78
Layout	Modeling stone walls	2003	Feb	92
Layout	Polishing rails	2003	Jan	96
Layout	Museum of science & industry	2003	June	60
Layout	Signal buyers guide	2003	May	64
Layout	Easy turnout controls	2003	May	86
Layout	Heavy industry	2003	Nov	60

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Layout	2 tier layout	2003	Sept	26
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Layout	10 tips for freight yard design	2004	Dec	68
Layout	Control panels	2004	Dec	90
Layout	Steam spectacular	2004	Feb	56
Layout	10 cool tools	2004	Feb	64
Layout	Signaling made easier	2004	Feb	68
Layout	Creating the new Virginian & Ohio	2004	Jan	108
Layout	Model mechanical interlockings	2004	Jan	122
Layout	Altoona, PA	2004	Jan	136
Layout	Perfect track	2004	July	44
Layout	Build an animated coaling station	2004	July	58
Layout	10 tips for staging yards	2004	July	78
Layout	Tunnel through the wall	2004	July	84
Layout	Stronger uncoupling magnets	2004	June	72
Layout	Wiring & scenery	2004	Mar	58
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Layout	A tool for programming decoders	2004	Nov	108
Layout	A tool for programing decoders	2004	Nov	108
Layout	N&W passenger trains of the 50's & 60's	2004	Oct	50
Layout	How sound decoders work	2004	Sept	94
Layout	Detailed layout	2005	Aug	44
Layout	Operating a logging layout	2005	Aug	54
Layout	Ideas to improve	2005	Aug	44
Layout	Build a walk through bridge	2005	Aug	52
Layout	Detailed layout	2005	Aug	44
Layout	Build a walk-through bridge	2005	Aug	52
Layout	Operating a logging layout	2005	Aug	54
Layout	Planning	2005	Dec	86
Layout	Sound installations	2005	Feb	58
Layout	How to lay track, build a bridge & cast rocks	2005	Feb	76
Layout	Chessie steam roams the mountains	2005	Feb	50
Layout	Water tower animation	2005	July	122
Layout	West Virginia Northern	2005	June	42
Layout	Modeling a highway underpass	2005	June	50
Layout	5 things to create a good layout	2005	June	54
Layout	Lessons from a successful layout	2005	Oct	54
Layout	Build a backwoods sawmill	2005	Oct	58
Layout	Working target signals	2005	Sept	82
Layout	Working target signals	2005	Sept	82
Layout	Road bed, flex track & wiring	2006	Feb	58
Layout	Construction	2006	Jan	50

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Layout	Constructing a releable helix	2008	April	52
Layout	Build a lift-out hill	2008	April	56
Layout	Good layout	2008	April	74
Layout	Modeling winter	2008	Dec	50
Layout	Ultimate mountain layout	2008	Dec	62
Layout	Build the Wisconsin & Southern on a shelf	2008	Feb	42
Layout	Italian western - details & tressels	2008	Jan	60
Layout	Clinchfield in N scale	2008	June	76
Layout	From coalfields to tidewater	2008	May	58
Layout	Ballast, grass, and a coal tressle	2008	Nov	56
Layout	Trackwork and wiring	2008	Oct	48
Layout	Modeling different types of track	2008	Oct	38
Layout	4 weeks to a bigger layout	2008	Oct	48
Layout	Chain link fence	2009	April	74
Layout	Big time coal hauling in HO ScaleClinchfield RR	2009	Aug	61
layout	Building a backdrop	2009	Dec	34
layout	You, too, can paint a backdrop	2009	Dec	38
layout	Wunderland goes to Switzerland	2009	Dec	42
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Layout	Plastic pockets improve waybill operations	2009	Feb	62
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Layout	A town is born	2009	Jan	66
Layout	John Allen's Gorre & Daphetid	2009	Jan	86
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Layout	Eureka! A town is born	2009	Jan	66
Layout	Landmark Layouts	2009	Jan	86
Layout	Ballast, streets, riverbanks, and sceneryBeer Line RR	2009	March	52
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Layout	Easy yard ladder control (multiple switch machines	2009	May	55
Layout	6 tips for installing the right decoder	2009	May	76
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Live Steam	Finger Lakes live steamers	1983	Aug	74
Locomotive	Improving the lead truck of steam locos	1963	July	50
Locomotive	Detailing	2000	Feb	82
Locomotive	Weathering your diesels	2003	Nov	66
Locomotive	Better sound installations	2005	Feb	58
Locomotive	Review of PRR K4 from Broadway Limited	2005	Mar	98
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Locomotives	Model locomotive turnup procedures	1976	Jan	53
Locomotives	Pacific Coast Shey - Part 3, Super detailing	1983	Oct	76
Locomotives	Louisville & Nashville's K-4 & K-4A's Pacifics	1983	Sept	78
Locomotives	Modeling a Southern Railway SD40-2	1984	Oct	75
Locomotives	Repowering a Rivarossi Mikado	1986	Jan	100
Locomotives	Painting a brass steam locomotive	1986	Nov	146
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Misc	Conversion tables	1974	Aug	45
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Misc	Work box for house or vacation	1974	Oct	56
Misc	A new source of tools for model railroading	1975	April	62
Misc	Waybills on the car	1975	Nov	86
Misc	Modeling telltales	1976	Jan	48
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Misc	10 principles for planning a family model RR	1982	Dec	126
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Misc	A computerized traffic generator	1984	Feb	72
Misc	Build the LeTourneau Letro-porter	1985	Aug	95

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Misc	Photographing models thru "smoked" glass	1985	Jan	76
Misc	Cattle crossing guards	1985	July	68
Misc	The Wise Division beginners meet	1985	March	116
Misc	Clean track - clean wheels	1985	Nov	96
Misc	Pin hole photography	1986	Sept	91
Misc	Timetables for smoother operation	1987	April	70
Misc	Ferroequinology-(model railraoding)	1987	Aug	100
Misc	ABC's of going beyond a train set	1987	Dec	120
Misc	Some riveting experiences (embossing rivets)	1987	Sept	62
Misc	ABC's of model railroad photography	1987	Sept	64
Misc	ABC's of lettering rollingstock	1988	April	68
Misc	The Paint Shop Spray Booth (good drawings)	1988	Jan	128
Misc	Make a acoffee table for your layout	2009	Feb	66
People	Improving cheap plastic figures	1988	April	100
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Rocks	Rock castings	1990	Aug	64
Rocks	Rocks	1992	Apr	89
Rocks	Adding rocks	1993	June	82
Rocks	Realistic rocks made with ceiling tile	2002	Sept	60
Rocks	Stone walls	2003	Feb	92
Rocks	Modeling stone walls	2003	Feb	92
Rocks	Rocks aren't hard	2004	Dec	70
Rocks	Realistic stone structures using No. 2 pencil	2004	Dec	94
Rocks	Casting rocks	2004	Oct	44
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Rocks	Rocks	2004	Sept	70
Rocks	How to cast plaster rocks in place	2008	Aug	34
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Rolling Stock	Modeling a Southern Railway Caboose	1984	Oct	78
Rolling Stock	Here's the beef	1987	Aug	52
Rolling Stock	How to apply decals	1987	May	62
Rolling Stock	ABC's of freight car tune-up	1987	May	70
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Rolling stock	Guide to freight car trucks	2003	Dec	72
Rolling stock	Quick & dirty freight car weathering	2003	Feb	68

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Scenery	Casting rock walls - Bohemian Style	1976	March	65
Scenery	A backdrop for the Waskits & Santa Fe	1982	Nov	120
Scenery	Soil and plant life	1982	Oct	100
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Scenery	Summit scenery on the NEB&W	1984	March	100
Scenery	Mini mirrors	1985	Dec	100
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Scenery	Feather weight hills	1993	May	76
Scenery	Weathering structures	1994	Aug	86
Scenery	Weeds	1995	Dec	136

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Scenery	Weathering	1995	May	104
Scenery	Casting your own detailed parts	1995	Sept	96
Scenery	Grass	1996	Aug	86
Scenery	Winterscapes, part 2	1996	Feb	82
Scenery	Winterscapes, part 1	1996	Jan	78
Scenery	Surf & sand	1996	July	68
Scenery	Modeling fences	1996	Nov	115
Scenery	Finishing track, ground cover & back drops	1996	Nov	92
Scenery	Track & power	1996	Oct	84
Scenery	How to plant weeds	1997	Apr	105
Scenery	Desert blooms	1997	Apr	86
Scenery	Ballast scenery details & structures	1997	Jan	88
Scenery	Culverts	1997	Mar	78
Scenery	Hills, roads & bridges	1997	Nov	82
Scenery	How to make realistic trees	1997	Sept	88
Scenery	Allegheny coal, part 3	1998	Aug	64
Scenery	Waterfalls from fishing line	1998	Dec	98
Scenery	Trees, water & ground cover	1998	Jan	112
Scenery	4 different types of fence	1998	Nov	88
Scenery	Allegheny coal	1998	Sept	64
Scenery	Figures, vehicles & water	1999	Aug	68
Scenery	Cactus valley	1999	Jan	155
Scenery	Ballasting track, rock castings & foliage	1999	June	78
Scenery	Foundation painting and basic foam	1999	Mar	74
Scenery	Western	2000	Apr	106
Scenery	Appalachian Central	2000	Feb	96
Scenery	Paint & castings	2000	Nov	92 &
Scenery	Stone arch overpass	2000	Oct	94
Scenery	Modeling snow	2001	Dec	94
Scenery	Grass	2001	Feb	72
Scenery	Basics of making patterns, molds & plaster castings	2001	July	70
Scenery	Lilly pads, cat tails & pond scum	2001	Mar	90
Scenery	All about signs	2001	May	52
Scenery	Landscaping from the foam up	2002	Dec	98
Scenery	Corn fields	2002	June	62
Scenery	Casting parts	2002	May	64
Scenery	Make your own shingles	2002	Nov	106
Scenery	Part 2	2002	Nov	60
Scenery	Stone viaduct	2002	Oct	82
Scenery	Making realistic palm trees	2002	Oct	101
Scenery	Rocks	2002	Sept	60
Scenery	Low profile track & building foam hills	2003	Feb	78
Scenery	Adding forest, rocks & rivers	2003	Mar	80
Scenery	Weathering your structures	2003	Nov	72

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Scenery	Easy ground cover	2004	June	42
Scenery	Painting a scenic backdrop	2004	Oct	70
Scenery	Modeling desert scenery	2005	Apr	48
Scenery	Western terrain	2005	Apr	48
Scenery	Painting & weather plaster	2005	Aug	82
Scenery	Painting & weather plaster	2005	Aug	82
Scenery	Mountains	2005	Feb	50
Scenery	How to lay track & cast rocks	2005	Feb	76
Scenery	Weathering rolling stock	2005	July	64
Scenery	Trees/Roads/Water	2005	Mar	86
Scenery	Rock castings	2005	Mar	24
Scenery	Rocks & trees	2005	Mar	24
Scenery	Modeling tall trees	2005	May	70
Scenery	Trees & forest floors	2005	Nov	40 &
Scenery	Basics of air brushing	2006	Apr	82
Scenery	Trees from pine cones	2006	Apr	130
Scenery	Mountains	2006	Dec	76
Scenery	Trees, conifer	2006	Feb	42
Scenery	Simple rotating signs	2006	Feb	130
Scenery	Putting together a station scene	2006	Jan	44
Scenery	Quick background trees	2006	Jan	138
Scenery	Lake, deep mountain	2006	July	61
Scenery	Tree handle	2006	July	114
Scenery	Making tanks	2006	Nov	130
Scenery	Lake makeover	2007	Feb	42
Scenery	Modeling a winter scene	2007	Feb	80
Scenery	Bricks & signs	2007	Feb	84
Scenery	Ballasting	2007	Jan	46
Scenery	Painting mountain backdrop	2007	Jan	74
Scenery	Modeling mountain meadows	2008	Aug	50
Scenery	Model the edge of a forest	2008	Oct	34
Scenery	Improving Walthers chain link fence	2009	April	74
Scenery	Modeling roads with decals	2009	Jan	96
Scenery	Roll your own steel coils	2009	May	50
scenery	Tunnel linings	2009	Oct	52
Scenery	Roads that go on forever	2009	Sept	46
Scenery	Basics of ground cover	2010	Dec	34
Scenery	Build a backwoods scene for your layout	2010	July	30
Scenery	Water and trees	2010	Nov	30
Scenery	Build a canyon scene - Part 1	2010	Oct	32
Scenery	Realistic desert diorama	2010	Sept	32
Scenery	Model a pasture, complete with cows	2010	Sept	28
Scenery trees	Trees by the bucket	2008	Feb	56
Scenery/trees	Disguise a tunnel with trees	2009	July	30

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Scenery-backdrops	Painting distant mountains	2008	Jan	72
Scenery-backdrops	How to paint effective backdrops	2008	June	36
Scenery-dirt	Pounding out lava-rock dirt	2009	Nov	66
Scenery-fields	Two layout-sized farm fields	2009	Oct	32
Scenery-fields	Model a field with thread and foam	2010	March	30
Scenery-MISC	Build the WSOR on a shelfballast, scenery, details	2008	Mar	52
Scenery-MISC	Model a modern grade crossing	2008	Nov	36
Scenery-MISC	Make an old baggage car into a shed	2008	Sept	34
Scenery-MISC	Scratchbuild a rural overpass	2008	Sept	66
Scenery-MISC	Lineside details by the book	2009	Aug	58
Scenery-mountains	Narrow backdrop hills	2009	March	48
Scenery-roads	Detailing the right-of-way	2008	Jan	56
Scenery-roads	Modeling roads with decals	2009	Jan	96
Scenery-rock	Add a rocky cut to your layout	2009	Aug	30
Scenery-rock	Add a realistic gravel pit	2009	March	40
Scenery-rocks	Making rocks quickly from foam	2010	Jan	32
Scenery-trees	coconut palm trees	2008	June	70
Scenery-trees	Making a forest on a bluff	2008	Oct	34
Scenery-trees	Make a distant tree line	2009	Aug	49
Scenery-trees	Making trees from garden plants	2009	Nov	32
Scenery-trees	Easy autumn trees	2009	Nov	38
Scenery-water	Model realistic rapids	2008	July	34
Scenery-water	How to model a harbor and pier	2010	Feb	72
Scenery-water	Add a river scene to uour layout	2010	Jan	62
Scenery-water	Modeling water over the dam	2010	May	30
scenery-weeds	Make realistic weeds	2009	Nov	47
Signals	Target signal	2005	Sept	82
Structure	Build a walk through bridge	2005	Aug	52
Structure	Operating doors	2006	Dec	138
Structure	Scratch built	2006	June	114
Structure	Building Freytags foundry	2009	April	52
Structure	Fairbanks, Morse & Co coal tower	2009	Jan	52
Structure	How to build a steel viaduct	2010	Nov	42
Structures	Cal's Lumberyard	1973	April	62
Structures	Beem Feed & Seed Plant	1973	Aug	34
Structures	How to make neat signs	1973	Aug	43
Structures	Engine terminal	1973	Dec	49
Structures	Useful freight platform	1973	Feb	43
Structures	CP Square Water Tank	1973	Jan	73
Structures	Wood for your wood burners - platforms	1973	June	64
Structures	John Allen's Memorial Bridge	1973	Nov	63
Structures	Gingerbread house	1973	Nov	71
Structures	Rectangular watertank	1973	Oct	38
Structures	Faber's cyclery	1973	Sept	40

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Structures	Signs for model co-ops	1973	Sept	58
Structures	Peter's Sausage Co.	1974	April	60
Structures	Oak Lake Grain Elevator	1974	Aug	54
Structures	The Perkins Produce Project	1974	Dec	54
Structures	Modular structure assembly	1974	Feb	60
Structures	Rowley Station	1974	Jan	50
Structures	North Abington Coal Shed	1974	July	41
Structures	Wayside Warehouse	1974	June	30
Structures	Jones Chemical Co.	1974	March	42
Structures	Second National Bank	1974	May	34
Structures	A three towered station	1974	Nov	68
Structures	Otis Station	1974	Oct	62
Structures	Stations	1974	Sept	42
Structures	Build your own gold mine - part 2	1975	Feb	72
Structures	Build your own gold mine - Part 1	1975	Jan	46
Structures	The duplex stations at Linden	1975	June	38
Structures	Mill office	1975	March	42
Structures	The Ohio, Michigan & South Shore RR	1975	March	46
Structures	25 ton coaling stations	1975	May	64
Structures	Modeling Mount Hope Station	1975	Nov	58
Structures	Mr. Pottle's potworks	1975	Sept	62
Structures	The Pennsylvania President's Station	1976	April	41
Structures	Mayforms Commuter Station	1976	April	52
Structures	Build an ash pit with derrick	1976	Aug	58
Structures	Scratch-build a loading platform	1976	Jan	76
Structures	Build the Flatt Iron Co	1982	Dec	104
Structures	Structures for the Jerome & Southwestern	1982	Nov	98
Structures	Kit bashing Edison Supply Co.	1983	Aug	62
Structures	Reading track maintenance structures	1983	Dec	96
Structures	S.J. Young & Sons Coal Co.	1983	Dec	99
Structures	North Orwell General Store	1983	Feb	76
Structures	A coal loader for the Roakandie Mountain RR	1983	Feb	95
Structures	Conrail track scale & switchman's shanty	1983	July	60
Structures	Structures for the Washita & Santa Fe	1983	June	74
Structures	Scratch building Paul's Valley Station	1983	June	80
Structures	Building Kopay's Furniture Store	1983	March	70
Structures	Build a single stall engine house	1983	May	74
Structures	Building a whiting gantry crane	1983	Nov	74
Structures	Building a derelict depot	1983	Nov	112
Structures	Build a Straddle Loader	1983	Oct	94
Structures	Structures for the Gold Hill Central	1984	April	96
Structures	Dolese Sand & Gravel	1984	Aug	63
Structures	Modeling an O&W Station	1984	July	72
Structures	NY, Ontario & Western Station	1984	July	76

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Structures	Structures for the San Juan Central	1984	May	56
Structures	A hillside water tank	1984	Nov	98
Structures	Severna Pork's Steel Mill	1984	Nov	109
Structures	Milwaukee Road Brookville Station	1984	Oct	82
Structures	A pair of Kitbashed storage sheds	1984	Sept	70
Structures	Mac Donald Coal Co.	1985	April	79
Structures	Hardly Able Manufacturing co.	1985	Aug	71
Structures	Nordis Garage	1985	Jan	116
Structures	Building plastic structure kits	1985	June	62
Structures	Gambol Whaite & Hope; a kit mingled industry	1985	March	69
Structures	Pennsy 40,000 gallon water tank	1985	March	74
Structures	Welte Lumber & Millwork	1985	May	68
Structures	Corrugated siding by the top	1985	Nov	80
Structures	Scratch build a Santa Fe Station - Part 2	1986	April	72
Structures	Elevated crossing gate tower	1986	Feb	102
Structures	Coldwater, N.Y. Passenger Station	1986	Jan	78
Structures	Modelling a 650-ton coaling station	1986	June	74
Structures	Scratch build a Santa Fe Station - Part 1	1986	March	76
Structures	Kitmaingle, A Wedge Shaped Factory	1986	May	71
Structures	Continental Grain Co.	1986	Nov	78
Structures	Build a 600-ton concrete coaling tower	1987	Aug	82
Structures	Residential ramblings	1987	Jan	106
Structures	Fruit-packing shed	1987	July	79
Structures	Gettysburg & Harrisburg RR Gardners station	1987	Sept	77
Structures	Baggage wagons	1987	Sept	80
Structures	Yosemite Valley RR water tank	1987	Sept	94
Structures	Permanent snow fences	1988	Jan	93
Structures	D&RGW's Wagon Wheel Gap Station	1988	March	79
Structures	Modeling an Irving Gas Station	1988	May	66
Structures	Chemical complex	1995	May	74
Structures	Locomotive shops	2000	July	80
Structures	interior lighting using DCC	2008	May	48
Structures	Building Freytag's foundry	2009	April	52
Structures	400 ton coaling tower	2009	Jan	52
Structures	Adding lights to a scene	2009	June	32
Structures	Basics of lighting scenes on your railroad	2009	June	36
Structures	How to model modern roofd	2010	Dec	64
Structures	Model an N scale demolished house	2010	Dec	76
Track	Can derailments be banished? Comepletly?	1963	July	39
Track	Roving uncoupling ramps	1973	Aug	58
Track	Bethleham twin span turntable	1973	Feb	48
Track	Jig made epoxy-mounted switches	1973	March	36
Track	Track contacts	1973	May	53
Track	Terminals	1973	Oct	44

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Track	Detail the rightway	1974	April	36
Track	Three color signals with one lamp	1974	Dec	78
Track	Crimp-link switch machine installation	1974	Dec	61
Track	A working track diagram	1974	July	62
Track	Easing the top & bottoms of grades	1974	Nov	79
Track	Common road signs	1975	Feb	44
Track	A system for hand laying track	1975	June	62
Track	Roadbed by the mile	1975	June	64
Track	Add signal detail to your right of way	1975	June	66
Track	How to build switch stands	1975	March	50
Track	Handling N-gauge code 40 track	1976	Feb	42
Track	Working search light signals - fiberoptics	1976	Jan	82
Track	Turnouts	1977	Mar	68
Track	Ultrareliable handlaid turnouts	1977	March	68
Track	Bumping posts & cars stops	1983	April	100
Track	Smash board signals	1983	Aug	68
Track	Coloring track for maximum effect	1983	Feb	104
Track	Building turnouts at the workbench	1983	June	92
Track	Hinged-point turnouts	1984	Aug	75
Track	How to hand lay track	1985	Aug	66
Track	Using snap switches for power routing & panel lamps	1985	Aug	108
Track	Improving Atlas N-scale turnouts	1985	Feb	102
Track	Contemporary switch-point heater	1985	Sept	68
Track	A manual switch machine	1986	April	96
Track	Modeling a stub switch	1986	Jan	94
Track	Switch machines; now you see them - now you don't	1986	July	98
Track	Ballasting the track on the Joplin & Southern	1986	June	80
Track	Highway crossings for the Joplin & Southern	1986	May	90
Track	A unitized switch machine	1986	Sept	98
Track	Using slow-motion switch motors	1987	Aug	62
Track	ABC's of good-running locomotives	1987	Aug	66
Track	Slow action crossing gates - Part 2	1987	Dec	100
Track	Derailment free track running	1987	Feb	76
Track	Bridge guard rails	1987	Feb	74
Track	ABC's of laying track	1987	Feb	76
Track	Easy to build turntable	1987	Feb	92
Track	Improving commercial turnouts	1987	Jan	80
Track	ABC's of turning track	1987	March	68
Track	Automatic reverse loop operation	1987	March	70
Track	Energize that dead frog	1987	March	94
Track	Quick, easy, and inexpensive switch stands	1987	May	66
Track	Slow action crossing gates - Part 1	1987	Nov	80
Track	Realistic N-scale signals - Part 2	1988	July	62
Track	Simplified CTC signals	1988	July	72

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Track	Realistic N-scale signals - Part 1	1988	June	62
Track	Power switch machines	1988	May	72
Track	Turnouts	1991	Jan	94
Track	All about turnouts	1997	Aug	60
Track	Realistic track	1997	Nov	112
Track	Weathering	1999	July	93
Track	2 train wiring	1999	May	70
Track	Paving for railroads - Part 3	2000	Nov	78
Track	Install a testing track - Part 2	2000	Oct	64
Track	Switching yard - Part 1	2000	Sept	50
Track	Failsafe turnouts	2001	Feb	90
Track	Electromagnet	2002	Apr	102
Track	Understanding railroad signals	2002	Dec	104
Track	1 turnout, 2 controls	2002	July	74
Track	Reliable turnout controls	2004	Dec	90
Track	Reliable turnout controls	2004	Sept	90
Track	Track	2005	Dec	48
Track	Laying & wiring track	2005	June	36
Track	Switch controls	2006	Feb	46
Track	Add signal detection to rolling stock	2008	June	56
Track	Make your main lines, siding, and spurs realistic	2008	Oct	38
Track	Superelevating curves	2008	Oct	44
Track	Make a ball signal	2009	Aug	42
Track	Build the Beer Line part 2	2009	Feb	46
Track	7 Handy turnout tips	2010	Aug	34
Track	Operate turnouts with RC servo motors	2010	Dec	62
Track	Up and running with flextrack	2010	March	39
Trees	Make better trees from bought ones	1973	Jan	65
Trees	Marvelous moss	1973	June	67
Trees	Building trees from picture wire	1974	Jan	44
Trees	Palm trees	1975	Aug	44
Trees	Floral shop trees	1983	Aug	70
Trees	Flat background trees	1983	May	88
Trees	Jute trees	1983	Oct	124
Trees	Root trees for scenic variety	1984	Aug	94
Trees	A quick and inexpensive pine forest	1985	Aug	80
Trees	A source for large pine trees	1985	Jan	114
Trees	Deciduous anyone?	1986	Feb	116
Trees	String trees	1986	June	83
Trees	Pine tree art	1988	Feb	108
Trees	Trees & bushes	1991	Nov	144
Trees	Trees	1992	July	106
Trees	Trees	1992	Oct	76
Trees	Trees	1995	July	62

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Trees	Trees	1995	May	83 &
Trees	Forest	1995	Nov	88
Trees	Trees	1995	Sept	66
Trees	Palm trees & orange groves	1999	Sept	76
Trees	Autumn trees	2002	Aug	72
Trees	Trees	2003	Sept	96
Turnouts	Throw a turnout from multiple locations	2002	July	74
Turnouts	Dual control for tortoise switch motors	2008	Jan	82
Turnouts	Manual turnout control	2008	Sept	68
Water	Scratch build a waterfall	1973	July	43
Water	Modeling water	1982	Mar	98
Water	Modeling with acrylic gloss medium	1984	Jan	152
Water	Rushing water	1985	Dec	112
Water	Water and how to model it	1985	Oct	78
Water	Water	1994	June	106
Water	Model water	1996	June	78
Water	3 waterways	1999	Oct	82
Water	Modeling waterfalls	2000	Dec	74
Water	Modeling a creek	2003	July	82
Water	Water	2004	July	40
Water	Standing water on your layout	2004	June	56
Water	How to model a harbor and pier	2009	Feb	34
Weathering	Quick weathering with chalks	1984	Feb	64
Weathering	Wash & dry brush weathering	1984	May	98
Weathering	Spray weathering without an air-brush	1984	Oct	98
Weathering	Weathering figures	1986	Jan	108
Weathering	Weathering corrugated siding	1987	July	60
Weathering	Freight cars	2008	May	66
Weathering	Trucks	2008	Nov	66
Weathering	1-hour weathering	2009	Jan	92
Weathering	Weather a cement hopper	2009	March	70
Weathering	Modeling a weather-beaten depot	2010	April	30
Weathering	How to weather a diesel engine	2010	April	34
Weathering	Weathering with powdered pastels	2010	April	38
Weathering	How to weather and string line poles	2010	June	28
Weathering	Easy boxcar weathering	2010	Nov	40
Wiring	Modeling with fiber optics	1973	April	52
Wiring	Mechanism for a search light signal	1973	Feb	60
Wiring	Automatic turntable indexing	1973	March	50
Wiring	Light beams detect trains	1973	Sept	59
Wiring	Three color signals with one lamp	1974	Dec	78
Wiring	Hot wire	1974	Jan	70
Wiring	Wiring your first layout	1975	April	40
Wiring	Heat sinks for transisters	1975	Jan	70

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Wiring	Marquette & Independence RR	1976	Feb	60
Wiring	Basic rules to make it simple	1981	Mar	110
Wiring	A computer/model RR interface - Part 3	1985	April	90
Wiring	A computer/model RR interface - Part 7	1985	Aug	87
Wiring	A computer/model RR interface - Part 10	1985	Dec	114
Wiring	A computer/model RR interface - Part 1	1985	Feb	92
Wiring	Two-cab wiring	1985	Jan	107
Wiring	A computer/model RR interface - Part 6	1985	July	86
Wiring	A computer/model RR interface - Part 5	1985	June	80
Wiring	A computer/model RR interface - Part 2	1985	March	92
Wiring	A computer/model RR interface - Part 4	1985	May	92
Wiring	A computer/model RR interface - Part 9	1985	Nov	98
Wiring	A computer/model RR interface - Part 8	1985	Oct	66
Wiring	ABC's of wiring your layout	1987	April	76
Wiring	Wiring your layout	1990	July	98
Wiring	Block signals	1991	Dec	130
Wiring	Block signals	1991	Nov	128
Wiring	Block signals	1992	Feb	102
Wiring	Block signals	1992	Jan	108
Wiring	Block signals	1992	Mar	114
Wiring	Block signals	2001	Mar	98
Wiring	Back to basics, wiring reverse loops	2003	Sept	48
Wiring	Troubleshoot a DCC layout	2009	Dec	48
Wiring	Easy layout control panels	2009	July	62
Wiring	Color-coding bus wires	2009	Nov	28
wiring	Simple train detection	2009	Oct	64
Wiring	Wiring your layout, part 2; cab buses	2009	Oct	74
Wiring	Wiring your layout, part 1: track bus	2009	Sept	70
Wiring	Control turnouts from multiple locations	2010	Sept	52